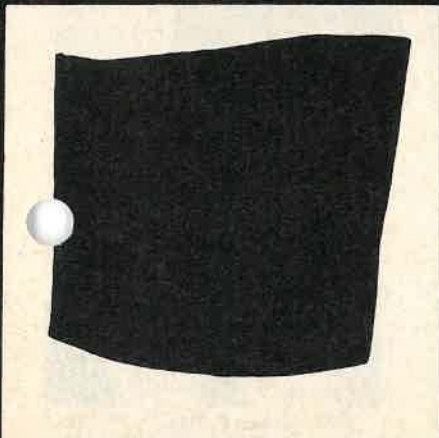
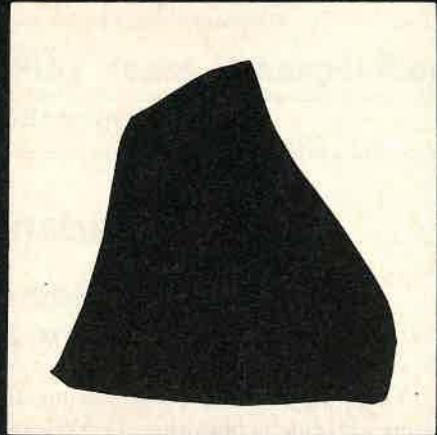


Bulletin

June

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*The
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REUNION EDITION

**Faculty of
Engineering**

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WINNIPEG, MANITOBA, JUNE, 1982

President's Message

We Can't See or Touch Nostalgia

by K.M. Jardine, P. Eng.

For those Manitoba Engineering students who didn't chuck their 11:40 classes in favour of bridge and early lunch, a great lesson was to be learned from Pop Milne's astronomy lectures. I shall never forget that tall erect figure, long arm and pointer outstretched indicating a spot on the classroom ceiling near the back of the room. He has an intense look of the visionary as he fervently proclaims "there is the vernal equinox".

The truth of the statement wasn't to be doubted, so convincing was the aspect of the professor. And for the purposes of that lecture at least, the vernal equinox became, in the minds of these scientifically oriented students to whom the ver-

nal equinox had previously been only a date in March, a spot on the classroom ceiling.



K.M. Jardine P. Eng.

The Great Lesson was, of course, that things unseen and untouchable have a reality of their own. Nostalgia, our unfulfillable desire to return to events of the past, is one of these things.

The big 75th anniversary Engineering Faculty reunion is a nostalgic event that not only has a reality of its own but has a great benefit in adjusting perspectives of our profession and our world. Those were important days when we were making such carefree decisions on matters that would determine the course of our lives.

I hope that all of you will take time to visit us at the Oasis during the festivities of July 1 to 3. Councillors and Past Presidents will be there, and a business card display board will tell you who's attending and what are their current business activities.

I also urge those of you who haven't yet decided about the event to take in at least some of the activities. I'll be there to see whether the vernal equinox is still in place.

The Engineering Faculty — Fifty Years of Association

**By Jack Hoogstraten, P. Eng. Dean Emeritus
(Past President and Honorary Life Member A.P.E.M.)**

My first recollections of the university are associated with my own undergraduate years, beginning with registration day in September 1924, and my dismay at finding that fees of eighty dollars were immediately payable.

The university at that time was housed in a group of buildings opposite the Legislative Building, bounded by Broadway, Osborne, York and Kennedy, and included portions of the original legislative building and the old Law Courts. The original three-storey university building stood at the York end of the block and was used by Science. The main building, originally built as a temporary structure for some other purpose, was a wood frame and stucco building in the form of an E, with the back of the E along Osborne St. The civil, electrical and thermo labs occupied about 1500 square feet of floor space in the Broadway wing. A dingy room in the basement of the old Law Courts

served as a hydraulics lab. The Provincial Gaol was located, and still stands, in the same block and seemed to be part of the campus. At least one man was executed by hanging on a scaffold erected in a small enclosed courtyard.

Although we were endeared to our university, we had an instinctive feeling that the word 'campus' hardly applied to that group of second-hand buildings in which we spent our days.

At that time we finished high school at grade eleven and entered a special first year Arts and Science program before entering the first of the four years of engineering.

Our first three years were spent at the Broadway buildings. Chemistry and Physics lectures were taken with students from Arts and Science in classes of some one hundred or more in Theatre A, right across the corridor from what was grandly called the common room.

This was really a locker room in which there was standing room only as we ate our bag lunches, never far enough away from the stink of the Chemistry labs just down the hall. But if the physical facilities were somewhat wanting, we had great confidence in our professors. First year lectures in chemistry from Professor Parker, mathematics from Dean Tier, 'Daddy' Knowlan and N.B. McLean were highlights. Professor Argue is one who will be remembered by generations of freshmen. He presumably taught us English, but imparted much more through a generous humanitarian spirit. He knew each student on a first name basis, and never failed to stop for a kind word whenever you met him in the halls. If he met you on a crowded street in the mornings he would throw his arms around you in greeting, often to the mild dismay of the student who was unused to such a public display of affection.

After the pre-engineering year, students were admitted to the first of two years with a common, mostly civil, curriculum, and in third year elected either civil or electrical, the only two programs offered. The curricula were rigid, and completely devoid of electives.

The engineering staff consisted of E.P. Fetherstonhaugh, dean of the faculty and head of electrical, J.N. Finlayson, head of civil, Bob Moffatt, Bill Riddell, John Dorsey, A.E. Macdonald, N.M. Hall and George Herriot. Architecture, at that time, and for some decades thereafter, was a school in the faculty. This program drew some dozen students and included selected subjects taken with the engineers. The architectural subjects were taught by A.A. Stoughton, an architect from New York. These were

all interesting men, with qualifications won largely in the engineering world rather than academe, and served ably in what was principally an undergraduate institution. All continued to serve until retirement with the exception of Professor Stoughton who returned to New York, and J.N. Finlayson who in 1936, left to become Dean of Applied Science at the University of British Columbia.

I graduated in the spring of 1929, the beginning of the depression years, and engineering jobs were practically non-existent. One member of our class, I recall, worked for a number of years as a butcher in a chain store and later became city engineer in a city in Western Canada. I joined the faculty as a demonstrator in the civil department and began lecturing the following year.

In 1932 the university suffered a severe set-back in the defalcation of university funds. The story broke in the fall, just before the opening of the next university session, when it was learned that the endowment fund was lost. Poor investments had been covered by undisclosed withdrawals from the fund until there was nothing left. Although the loss amounted to only some fifty-thousand dollars per year, the university was hard hit, and I, with many others, lost my job as lecturer, to be re-hired three years later. At the same time, because of the general deteriorating economic condition, government grants were reduced and salaries were cut.

By this time it had finally been decided that the permanent site of the university would be at Fort Garry, and the Arts Building (later named the Tier Building) and the Science Building (now the Buller Building) were completed in

1932. But these, together with several of the old red brick buildings which had formed, part of the Agricultural College, were, in total, insufficient to house the whole of the university. So in 1933, only what became known as the Senior Division including 2nd., 3rd., and 4th year engineering and 3rd and 4th year Arts and Science were moved to the Fort Garry campus. The Junior Division which included pre-engineering and first year engineering as well as 1st and 2nd year Arts and Science remained at Broadway. This unsatisfactory condition was to prevail through the thirties and forties. The commuting, often by street car, between two campuses some nine miles apart, imposed a burden on both administrative and teaching staffs.

However, despite these difficulties as well as those imposed by the general economic attrition, Engineering made some gains. The faculty was established in the 3-storey red brick building formerly used by Agricultural Engineering. All laboratory equipment was moved from Broadway, and for the first time, the faculty had a building of its own, although not large enough to accommodate pre-engineering and 1st. year which remained at Broadway. The School of Architecture, now under the directorship of Milton Osborne was moved to the upper floor of the new Arts building.

In 1936, following the resignation of N. Finlayson, A.E. Macdonald was appointed to head the civil department.

At this time, some thought was given to the possibility of adding mining engineering to the faculty's offerings so as to reflect the growth of the mining industry in the province. However, it was

felt that the establishment of a full department supported by adequate laboratory facilities was beyond the means available to the faculty, and, as well, the history of mining schools in Canada left the matter in some question. So in an innovative move, a four year program in Geological Engineering was established with the cooperation of the Department of Geology, under the able leadership of George Russell, himself a mining engineer. The program consisted of courses carefully selected from Geology imposed on most of the Civil program. Because of the heavy curriculum load, only the abler students entered. Although these classes were small, graduates were much in demand and enjoyed successful careers in the mining industry.

The close of the decade of the 30's marked the end of the depression, but opened the upheaval of war. During the war years, many of the teaching staff were involved with additional duties providing basic instruction for workers in war industry. A special summer course was provided for 250 radio technicians for the R.C.A.F. Because of declining enrolment it was found necessary to suspend the program in geological engineering. At the beginning of the war, the student residence was requisitioned by the army and a large area of the south end of the campus was fenced off. Many army huts were erected and the old River Park skating rink was dismantled and re-erected on the campus on the location where it still stands.

Up to this time, engineering establishment and enrolments had remained relatively static. When the war ended in 1945, however, things began to happen as the war veterans flooded back to the

university. The teaching staff had to be quickly expanded, often with people with no graduate training or teaching experience. In many courses, class notes were multigraphed to assist inexperienced instructors. The skating rink was divided by a maze of ten-foot partitioning to serve as lecture halls and staff offices. All of the army huts were utilized in one way or another to provide additional class room, drafting room and office space.

The veterans' village was constructed nearby, consisting of small two-room huts in which veterans lived with their families under conditions which can only be described as primitive. Despite the trying conditions under which they lived and studied on their \$80 per month veteran's allowance, these young men, (many of them not all that young) brought to the university a maturity of approach to their studies that has not been equaled before or since. They had been many years out of school, forgotten much of what they had learned, and faced a difficult transition from the adventures of war. But they were grateful for the opportunity to obtain a university education at a period in their lives when such an opportunity was regarded as having been long since forgone.

In order to accommodate the heavy influx of veterans, special accelerated programs were offered during spring and summer sessions in order to clear the crowded conditions as early as possible. Some idea of the teaching loads carried by staff at that time can be gleaned from enrolment figures. In 1947-48 engineering enrolment stood at 882, and staff numbered 22 which translates to a staff-

ing ratio of 1:37. Today's ratio of 75 staff to some 1200 students comes to 1:16.

First year engineering, which up to this time had remained at Broadway, was brought to Fort Garry despite the shortage of space at this site, so that for the first time, all of the faculty was located on one campus.

In 1947, heavy enrolments made economic the establishment of the department of Mechanical Engineering, and N.M. Hall was named the first head.

In 1948 a one-storey civil engineering testing lab, occupying an extension to the south wing was completed. The following year saw the completion of a handsome new building adjoining the north side of the complex, devoted entirely to lecture rooms and staff offices. Both these structures were planned by Professor Macdonald, and the thirty years that these buildings have been in service attest to the soundness of his work.

Dean Fetherstonhaugh retired in 1949 after 40 years with the faculty and A.E. Macdonald became the new dean. W.F. Riddell was named head of Civil, and N.A. Williams became head of Electrical.

In 1950, the program in Geological Engineering was re-established, and Electrical opened the first move to modernization of curricula with the establishment of a four-year program in Engineering Physics.

In 1955, Nev Williams resigned and J.P.C. McMath was appointed head of Electrical. In the following year, R.E. Chant became head of Mechanical, following the retirement of N.M. Hall.

The Fetherstonhaugh High Voltage Laboratory was opened in 1957, financed by funds raised from industry under the leadership of D.M. Stephens, Richard Noonan and others. Over the following five years major additions to the three wings of the original red brick building were completed.

In 1957 I resigned to assume the presidency of Nova Scotia Tech and returned to the university in 1960 to direct the planning and extension of the university's physical facilities. In order to significantly increase classroom utilization, I invented the university-wide slot system of time-tabling classes which automatically resolved final examination scheduling, which, largely because of the increase in electives, had become so complicated as to defy the best computer software available. The system was subsequently widely adopted by other universities. I returned to the faculty as dean in 1964, after the untimely death of Dean Macdonald and after W.F. Riddell had served a year as acting dean.

After a decade of depression, another decade of war and its aftermath and a period of general attrition extending through the fifties, federal funding for universities became available. President Hugh Saunderson was now in a position to support the belated modernization of the faculty and the addition of graduate facilities to what had been, up to this time, mainly an undergraduate school. The main drive was directed to the recruitment of staff, and qualifications

at the PhD level were made mandatory. It was slow going at first, because engineering PhD's were in short supply, and those who were available were reluctant to accept engagements at schools where research facilities were meagre. But persistence paid off. The growing numbers of new staff, trained in research at universities throughout the English-speaking world drew increasing support from granting agencies such as the National Research Council. These grants were used to support graduate students and also brought major funding for the acquisition of expensive laboratory equipment. Graduate work at the PhD level was begun and the growing ranks of graduate students provided an ample cadre of teaching assistants and demonstrators.

Undergraduate curricula were upgraded and a full complement of electives was offered, made possible by the varied qualifications of new staff. The old grading system, involving troublesome supplemental examinations was replaced by a letter-grade system which proved to be so successful that it was adopted by all other faculties within two years.

Beginning in 1964, several members of the faculty were engaged for some five or six years in assisting in the establishment of a new university at Khonkaen in North-East Thailand. This was a million dollar CIDA project directed by the dean with the cooperation of the dean and members of the faculty of Agriculture. Engineering and Agriculture were the first two programs to be established at the new university, a pragmatic decision based on the needs of the North-East region. Because of the

paucity of Thai professional literature, it was decided that Khonkaen would be an English-speaking institution, and for this reason, held a unique position in Thailand, although the second language posed added problems. Solid assistance was also provided by Manitoba in obtaining Colombo Plan funding to train Khonkaen graduates, who after graduate work here, were obliged to undertake a period of teaching at their alma mater.

On my last visit to Khonkaen in 1974 on the occasion of the celebration of their tenth anniversary, I had the opportunity to assess what the Thais had achieved in their first ten years, and it was impressive indeed. What had begun as an outpost in the somewhat neglected North-East had become a thriving, bustling town with an impressive campus roughly the size of Manitoba, now with additional faculties in Science, Nursing and Medicine. This project brought an interesting international flavor to the undertakings of the faculty.

Much of the expansion of the sixties was made possible by the huge influx of students born in the war years who reached university age during this period. But after these 'war babies' had passed through the university enrolments declined leaving many faculties over-staffed. This together with the worsening economic condition of the seventies once again posed financial problems for the universities and the faculty was once again exposed to underfunding. Dean Wedepohl who succeeded me in 1974 waged a one-man war and brought the underfunding to public attention. His efforts, in which he was assisted by the Association brought increased support from the university as well as from industry and both levels of government.

Today, the state of the national economy has once more placed engineering faculties throughout Canada in seriously underfunded positions. It is, I think, an interesting observation that Canadian Council accreditation today stands as a buffer against the kind of attrition that could prevent engineering education from attaining its due potential. Certainly the threat of non-accreditation was useful to Dean Wedepohl in winning concessions. Now it is reported that Toronto's accreditation may be in question. This seems to mean that accreditation is no longer (if it ever was) gauged by comparison with the best of Canadian faculties, but is now measured solely against what is to be achieved by the engineering profession and what is expected from it. This may well become a major challenge for the provincial associations.

Bulletin Reporter Acclaimed

Carson Templeton was granted an honorary degree at the May convocation of the University of Manitoba. It was a fitting tribute to this exceptional engineer for his remarkable contributions to the entire country. Carson Templeton has received both this Association's Merit Award and our Outstanding Service Award. Also conferred on him, at a national level, has been the Order of Canada. He has brought reflected honour, integrity and distinction to the Association ever since his initial registration with us in June 1955.

We commend the University of Manitoba for selecting such a distinguished professional engineer on whom to confer an honorary degree.

Reunion '82

Can you identify Gary Swan, Don Miller, Barry Rindall, Evan Mackenzie, Councillor John Fulton, Landis Krause, Ed Lipinski, Pat Feschuk, Bob Gottfred, Ernie Bridges, Alf Cornies, Cliff Tottle?



From top left to bottom right — Barry Rindall, Cliff Tottle, Don Miller, Landis Krause, Alf Cornies, Evan Mackenzie, Ernie Bridges, John Fulton, Ed Lipinski, Gary Swan, Pat Feschuk, Bob Gottfred

Greetings

Do I remember the University of Manitoba? How very well I remember registering for Pre-Engineering at the old Arts building on Kennedy Street in the fall of 1930. The economy at that time was a disaster, like today but different, with frequent demonstrations by the unemployed at the Legislative building. My father had convinced me that to pursue an education in engineering was the thing to do. So there I was in a group of two hundred plus would-be engineers for a year which I consider was one of the worst of my life. I had real difficulty with the language and chemistry courses and ended up with a number of supps which meant spending an unpleasant summer in Summer School.

In the fall of 1931 I entered Engineering and for the next two years enjoyed courses that I could get my teeth into. The hydraulics laboratory in the musty basement of the Arts building under the direction of George Herriot opened up a whole new world for me, a plumber's son. The physics course and laboratory directed by Professor McLure in the old Physics building fascinated me and I was completely sold on the advantages of the metric system. Other members of the staff including Bobby Mofatt, Bill Riddell, Don Stephens, Sib de Jong and Ed Magill were always available and most helpful. Then there were the Oxford and Aberdeen Hotel parlours where some members of our class enjoyed a break over an Indian Pale Ale or Standard Lager. Somehow today's beer never seems to taste as good as it did in those days. Possibly the fact that we were under age may have had something to do with it.

Survey School in the fall of 1933 provided our first opportunity to enter the

old Engineering building at Sherbrooke and Portage. It was our base while we ran extensive surveys in the vicinity of Stevenson Airfield (now the International Airport), Omand's Creek and the Deaf and Dumb buildings in Tuxedo. After dark we were introduced to the stars and their significance in navigation and the practice of land surveying.

Come the fall of 1933 we were moved to the Engineering building at the Fort Garry site, and for the first time all students in the faculty were together under one roof. To me this consolidation was very beneficial in that the staff were much more accessible and the class rooms and laboratories were more conveniently located. Of course, for those not residing on campus, it did mean daily travel from and to the city on crowded trolleys, and buses. It was impossible to stand upright in many of the buses which meant that many students became prematurely hunched.

At this stage we were introduced to Jack Hoogstraten whom I considered to be the master of the teaching profession. He seemed gifted with the ability of making the most complicated problem seem so simple. Our most unforgettable professor was John Dorsey the brilliant but absent-minded head of the Electrical Department. Then there was Dean Featherstonhaugh that fine gentleman who provided the statesmanlike leadership of the faculty. I would be remiss if I failed to mention Mac Macdonald, Major Hall, John Finlayson, William Scott and Mr. Cunningham all of whom had their own special knowledge and ability to inspire a restless bunch of would-be engineers.

Finally it was time to graduate in May of 1935. Convocation was held in the old Winnipeg Auditorium adjacent to Memorial Boulevard. Between final examinations and convocation many of us sprayed oil for the anti-mosquito campaign and looked like boiled lobsters when we finally received our degrees. There were 26 electrical and 30 civil graduates. Gold medals were presented to Charlie Gregory in Electrical Engineering and to George Griffiths in Civil Engineering. Jobs in engineering were scarce so it was off to British Columbia for this budding engineer to shovel gravel at twenty-five cents an hour.

Looking back over the years I consider that I was very fortunate to have attended

the University and its Engineering Faculty. Naturally it had a great influence on my life which has been most satisfying, and which I would not want to change if I could.

There are at least a dozen engineers from our year living at the west coast. Three of us live in close proximity on the same street in Tsawwassen. My wife Kae and I look forward to being present at the 75th Anniversary of the Engineering Faculty and particularly to the opportunity of renewing acquaintances with other graduates and their wives some of whom we have not seen since graduation.

— Jim Rettie B.Sc. C.E. 1935
(Former Member A.P.E.M. Council)

Reflections of a Retired Engineer

By W.L. Wardrop, P. Eng.

(Honorary Life Member and Past President A.P.E.M.)

Forty-three years ago it was my good fortune to graduate from the University of Manitoba with a degree in Electrical Engineering. Class '39 included 23 Electricals and 14 Civil graduates. There were not many jobs available locally for electrical engineers that year and I ended up obtaining a survey job with the Manitoba Government Reclamation Branch, carrying out revisions on the proposed Pointe du Bois road, and subsequently on a location survey for a new road between Bissett and Beresford Lake. Supervising engineer for this work was Chris Fisher who has enjoyed an outstanding engineering career for many years with Armco Canada Ltd. The project was terminated in the late fall, influenced no doubt by the start of World War II.

In reflection, my years at the University were extremely interesting, because it was during this period that Prof. John Dorsey was in the midst of his research on D.C. transmission theory. I recall being alone with him during one of his impressive corona tests, when he was about to close a high tension circuit and hesitated abruptly and exclaimed, "Wow! that was a close call." He was often described as the typical absent-minded professor, not uncommon for those with minds bordering on the "genius". But today, as we all know, this concept has proven to be a great electrical achievement, and his name attached to the Dorsey D.C. Terminal will remind future generations of his outstanding contribution to society. Many will also recall the maze of extra

wires and switches in his car used to achieve maximum power from a battery during cold weather. It really was an exciting time to be attending university.

Class '39 produced some prominent engineers. A few that readily come to mind are Jack Fraine and John Demcoe, senior executives with the CPR and CNR respectively, Joe Boux, founding member of Supercrete Ltd., Gordon Nicholas, President of Cowin Steel, Harvey Malmgrem formerly of Malmgrem Equipment Ltd., Howard Dixon of Douglas Aircraft, Paul Shane of Manitoba Hydro, Bob Stewart of Winnipeg Hydro, and Aaron Gusen of Ontario Hydro. No doubt there were others from our class who have been equally successful.

My pre-engineering year was taken at Wesley College, with first year engineering at the Broadway site, even though the Faculty had moved to its new location at Fort Garry campus in 1933. I decided to move into university residence midway through my second year because of two failures in first term. I found the street car trip to the Fort Garry campus very time consuming, along with the extra time taken up with batching, which I was doing with a medical student from my home town.

Two architectural students, Nora Patterson and Betty Crawford lived near me in the vicinity of Balmoral Street. One day on a dare it was decided to walk to the University rather than take the street car. As it turned out, Nora and I were the only ones that made the 6 a.m. starting time and completed the walk.

The move into residence proved to be a good decision because I was successful in my second year and became fairly

competitive in my final years, which I attributed to the improved environment for studying. My greatest scholastic thrill was receiving full marks in the final A.C. exam. Not, of course, to be compared in the same league with Aaron Gusen, with something like four 100's and Ray Woodfield who was another scholarship man.

Life in residence was really a great experience. Dr. and Mrs. Hugh Saunderson were marvellous in their roles as Deans of men and women, respectively. Winter recreation consisted of skating on an open air rink at the back of the residence and skiing along the river banks. There was always the gym and swimming pool available. I have very fond memories of my two and half years in residence — the lovely evening dinners and particularly the times when ice cream was served, which was made locally in the dairy next door. We kept the waitresses busy taking bowls back for seconds and often thirds.

I was particularly interested in inter-faculty hockey which at that time was played in the Olympic Rink located along north Main at the corner of Church Avenue and Charles Street. It was a long trip from the University, but thanks to our Manager, James Kerr, who just happened to have a Packard limousine, transportation was hardly ever a problem. The Engineering faculty was well represented on the Varsity hockey team with outstanding players such as Bill Wood from our class, and Jack Perrin, together with Frank Alsip and Doug Johnson from the Architects.

While I had a special interest in electrical engineering, I returned to the University in 1940 to attain a civil engineering

degree, which appeared to offer a greater opportunity for me in this province. Fortunately, I was able to work part time as a demonstrator in the draughting labs during my spare time. Saturday mornings were spent taking C.O.T.C. training at Minto Barracks. Although I was waiting for a call from the Air Force, Major Baxter, the officer in charge of C.O.T.C., convinced me, because of my electrical degree, to apply for a commission in the Royal Canadian Signal Corps, and I was accepted in June 1941. On my discharge in 1946, at the request of Dean Macdonald, I returned to the University during the summer, as a demonstrator for the veterans' course. Subsequently, I completed my civil degree with Class '47. Part-time work as a draughtsman with the City of Winnipeg Engineering Department during this period led to my acceptance of a position with the City following graduation. In retrospect, my communications experience in the services, coupled with my electrical and civil engineering degrees, proved of great advantage in my work as Engineer of Water Works and Sewerage.

One of my most traumatic experiences at University occurred when Dean Macdonald asked me to give a lecture in

Graphical Statistics, because Prof. Jack Hoogstraten was away on sick leave. I emphatically turned it down because of sheer fright. At the time I was staying in a boarding house on Edmonton Street with eleven other roomers, including one young lady. After being persuaded by this young lady that turning down this assignment was no way of getting ahead in the world, I reconsidered, and accepted the challenge. The lecture was far from being a resounding success, but somehow I got through it and since then I have never backed away from such challenges. Incidentally, that young lady later became my bride, and for more than forty years has shared in my decisions.

How nice it is to join with other graduates in celebrating the 75th Anniversary of the Faculty of Engineering. As a retired engineer, I can attest to the great opportunities that came my way through the privilege of attending the University of Manitoba. Each engineering class, through individual efforts, has made its mark in contributing to the betterment of society. Our Faculty certainly can be proud of its impact on the engineering community throughout Canada and many parts of the world.

Civil Engineering 1966

It seems like a lifetime since graduation sixteen years ago, in fact two lifetimes since first setting foot in the old engineering building. I recall the early message from the profs that the mortality rate would be high — one out of three would flunk out of first year — the same again in second year. They were right, as I later found out.

Those early days do not bring to mind many significant events but were filled with long hours of classes, study and endless assignments as we struggled to grasp the concepts of Calculus and Physics. The cold dark days of January and February seemed to never end. However, at long last the dreaded final exam time arrived. I considered it a minor victory in passing

10 of 12 with Spherical Trig and Physics III being my only downfalls.

After escaping from first year by passing one of the two "supps" (Trig.), I ventured forth into second year with renewed confidence and vigor. My elation was shortlived however, as second year provided an even heavier load of lectures, labs, assignments and study, (14 courses in total).

Second year provided some comic relief, however, in the form of Philosophy 206. This attempt at providing Engineers with some exposure to the "Arts" was a disaster as the course was plugged into the lunch period of a day which already contained 3 or 4 lectures in the morning and a three hour lab in the P.M. As a result, Philosophy was digested along with salami and bologna sandwiches and milk, punctuated with an occasional belch. First and second years were topped off with survey school. After several weeks of study and exams, it was hard to bear down for this course. I recall the chaining exercise down the "Row of Elms" which resembled more of a relay race. With Pichurski and Jorgenson in the group, the object was to finish by 11:00 a.m. in order to be at the Montcalm for pub opening (a unanimous decision). I also recall our plane table survey crew being interviewed by a police inspector one sunny day. Something about some underage damsels who had been rescued from the clutches of the law at the Montcalm. We didn't know anything about it.

The lightheartedness of survey school was followed by the bitter reality of exam results which left me with 4 failures, one of which I passed in the summer "supps".

Broke and faced with the prospect of repeating second year I opted to sit out the next year and attempt the remaining 3 courses as supplementals. This proved to be a good decision as I quickly learned that it was difficult to live on \$42.50 per week. Another bout with supplementals got me by 2 of the 3 and into third year Civil, a definite high point.

Third year Civil — 64-65 was a strange collection of drinkers, athletes and keeners. Over the course of the last 17 years, the descriptions are probably still valid but some of the roles have no doubt changed. This group has its share of characters such as Bill Wilton, Bob Gibb, Jim Gill, Dave Hicks, Murray Carvey, Barry Jorgenson, Larry Ife, Cliff Tottle, Rudy Triffo, Gerry Pyper, Ferg McIntosh and Guy Cooper to name just a few. In contrast with first year, III C had many memorable moments such as Astronomy Observation Lab nite, a class stag, Power Prom, the A.J. Carlson Sewage Plant Tour, numerous shuffleboard tournaments at the Montcalm and the occasional field trips to the Royal Albert Arms or Harry's Bar in Pembina. The infamous Bob Gibb (Harvard grad) coat rack escapade at the Vendôme comes to mind as well as the mid-winter trek to Bill Mathews' cabin.

Electrical lab was a frustrating experience for civil engineers. This nightmare of wires, voltmeters, OHM - meters, etc. was eventually solved by a quick wiring job and turning on the voltage. This was usually accompanied by a lot of smoke and sparks followed by shrieks of horror from our laboratory assistant who would immediately correct the problem, thereby saving the lab equipment and freeing us for the rest of the afternoon.

Academically speaking IIIC was somewhat easier than either first or second year, perhaps partly because apart from electrical lab the course content was starting to become relevant to civil engineering although it was still a lot of hard work. Third year finals left me once again with one third year and one second year "supp" to write in August — both of which I passed — the weight came off my shoulders as I had written my thirteenth and final supplemental exam.

IVC was by the far the most enjoyable. This was also the first year that mid-term finals were written in the first week of January instead of December, resulting in a Christmas and New Year spent studying. To compensate "Civil New Year's" was celebrated by the class January 5, 1966 at the Gay Cavalier resulting in one of the most memorable New Year's celebrations.

That final year passed quickly. By now, the group had come to know each other pretty well with guys like Bill McDonald, Alex McLellan, A.V. Choo Ying, Ray Van Cauwenberghe, Frank Babienko, Bill Boyaniwsky all starting to make their mark. Wilton's wedding, winning the 8 man football and hockey championships, the IVC Morale Chart, Power Prom, Bridge labs and Grad's Farewell were all memorable moments. Grad's Farewell was particularly memorable, as it was originally scheduled for March 4, 1966, the day of the great blizzard. As a result, it was postponed several weeks during which time the graduate mugs sat in some dusty hotel storage room. The traditional toast was marked by 35 beers served with a "black head". Apart from all this revelry enough

honest work was done in order to convocate.

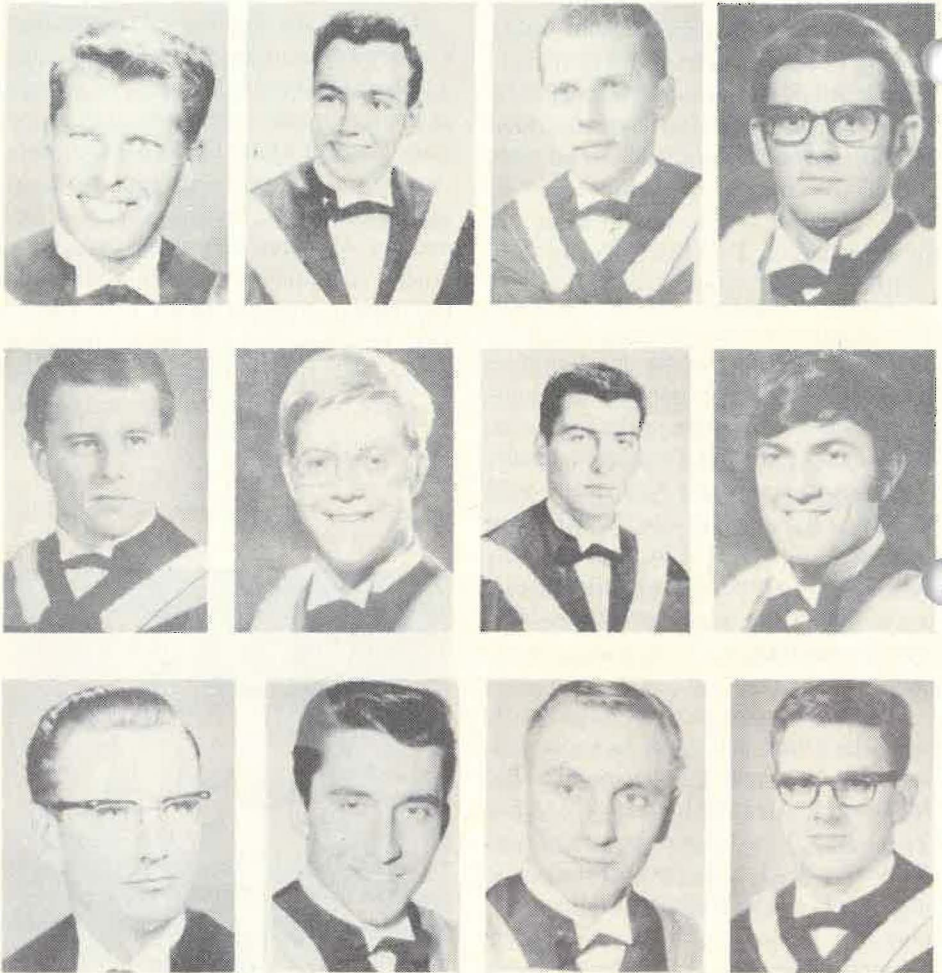
I recall the feeling of pride and accomplishment on Convocation Day which was mixed with a touch of sadness as the day marked the separation of our class, many of whom I have not seen since that day. The upcoming 75th Anniversary Reunion of the Faculty of Engineering will present an opportunity to renew old acquaintances. In addition to the regular program July 1 to 4, 1982 a IVC '66 Class Stag is being arranged for Friday nite July 2, 1982. I look forward to seeing many of my old classmates and reminiscing about some of those memorable moments.

— A.W. Bischoff, P. Eng.



The picture of this non-graduate was taken when she was about the same age as the graduates

REUNION '82



These pictures ran in our April issue and starting at the top left their identities are Alf Poetker, Carl Anderson, Bruce Clapham, Richard Pietrowski, Carl Kummen, Dan Card, Jerry Kruk, Sandy Gibb, Jon Stefanson, Ed Tymofichuk, Alf Bischoff, Ken Buhr

Vice-President Dave Cross Remembers

It is the beginning of April and I am sitting in the airport to begin my flight to Gjoa Haven, North West Territories. The sight of students returning from their midterm break reminds me of those days in the late fifties when as a first year engineering student I faced the onslaught of thirteen final examinations. It was all or nothing. I remember milling like cattle at the doors of the UMSU gymnasium and then being stampeded as the doors swung open. I rushed to find the correct paper. What a tough way to get an education.

I also remember the first days of the drafting lab where everything went smoothly until the day we started drawing on linen. In pencil we meticulously drew our carefully measured vice. Then the instructions came down from on high. Break out the ruling pens and fill them with ink. What a disaster! First there was the dripping of black india ink and then the blot. The ink may have been black but the air turned blue with curses. A sharp razor blade would lift the dried mistakes from the linen or destroy your effort completely. But the best news was saved until after graduation linen and ruling pens became extinct.

What about those super lunches in UMSU. After four morning classes a whole hour was allotted for lunch. The brown bags were hastily removed from the basement lockers. Egg salad sandwiches, made the night before, had warmed and mellowed. We trekked across the quadrangle to eat in the sumptuous dining hall of UMSU, amid the remains of old sandwiches, bags etc. left by Arts and Science students. It wasn't until much

later when I became a councillor of the A.P.E.M. that I learned you can also have sandwiches for dinner!

One of the highlights of the day was the religious break at 9:20 A.M. Then the coffee squad made the run to the residence cafeteria no matter what the weather. Twenty minutes of hot swill woke us up and washed away the dryness of the first lecture. Our brains were sharpened to absorb the next three hours of Mechanics, Strength of Materials, and Physics, taught by aging science professors.

The fun of six man football and the trip to the mighty metropolis of Brandon to play the University of Brandon's Arts faculty are also fond memories. We left at 4 P.M., played at 8 and arrived back in Winnipeg in time for morning classes. It is funny how one forgets the outcome of the game and remembers only the fun.

Survey school everyone else started their summer jobs at the beginning of May except the engineers. They got to survey the cow fields, the railway tracks and the river banks.

Finally graduation day arrived and we were set loose to prove that our education was worthy of pay. It will be great to see old classmates at the seventy-fifth reunion. Perhaps they will be able to add to my memories of my university days.

Important Notice

Any member whose 1982 Annual Fees have not been received in the office by June 30th will be removed from the Roll of Professional Engineers. There are no exceptions. (By-law 32).

The Alumni Olympics

A prominent feature of the 75th Anniversary Reunion will be the "Alumni Olympics", to be enjoyed on Friday afternoon, July 2. The Faculty of Physical Education and Recreation Studies has reserved all of the University's athletic facilities for Engineering alumni and friends. You can play racquetball, squash, handball, basketball, softball or tennis, you can swim, run, walk or crawl, or you can participate in the feature event of the day.

THE GREAT ENGINEERING VOLLEYBALL CHALLENGE

Rumored to have originated in ancient Greece, this extravaganza is now held once every seventy-five years on the Quadrangle of the U. of M. campus. Legendary Engineering heroes of the past will return to do battle on the field of honor.

Each of the major disciplines: Civil (and Geological), Electrical and Mechanical (and Agricultural) will be represented by a team from each "era" (for example 1960 to 1964). The three teams from a given era will play a round robin to earn points for their discipline. The discipline earning most points (the Civils of course), will be crowned in glory as Olympic Champions.

Although the sport of volleyball may be set back a century or two, new heights will be reached in fun, and laughter. Bring your volleyball uniform (the more outlandish the better) and take part in this weekend highlight.

To sign up, send your name, graduation year and discipline to:

Prof. Art Carlson
Room 350 Engineering Building
University of Manitoba
Winnipeg R3T 2N2

Shirley Matile Looks Back

(She was Shirley Stock)

Remember the Fall of '72? Mini-skirts and bell-bottom jeans were all the rage, Hewlett-Packard calculators were just reaching the market, and the Engineering Symonized Marching Band, even then, was sounding as if it could use a tune-up.

Jack Hoogstraten was Dean of Engineering, Art Carlson was Assistant Dean, and Ben (now "Oulton") Rogers was Senior Stick. Jim Warrener, George Balacko, Gren Yuill and Ken Adam were still professors, and Ed McGill was teaching mechanics (and the use of the slide rule) to first year engineering students for the last time.

This was the year of the APEM Bread Roll Eating Contest, and the Festival of Life and Learning's Reach for the Pot and Great Trike Race. This was the year we finally had enough girls (4) to form a Rifle team, and won the ladies rifle, the senior hockey and the innertube basketball championships. This year we graduated such notables as Bill Brant, Kelly Kjartanson, Don Mulder, Ron Sorkowski, Ross Webster and Tom Wingrove. (Not to mention Wells Peever, who later went on to bigger and more lawful things!)

1973. The year of the strike. This was the year Assistant Dean Carlson spent much of his time sweeping the hallway floors. Don Osman was Big Stick, and

Rob "Slobbie" Patterson was Little Stick. The Engineering Band, still no better, (although they **are** the only guys who can drink, march and play at the same time!) helped raise money in Campo for the March of Dimes, and were actually **paid** for their efforts.

This was the year of electronic calculators, of Dean Hoogstraten's retirement, of Aldis Hallson's running for Senior Stick and of the graduation of John Ewing, Dwight Gibson, John Kupskay, Bill Larkin, Derek Longfield, Les Moore, Arnie Permut, Mike Quinn, Reinhard Sprenger, Jim Tchir, Grant Wichenko and Bernie Wiebe.

1974. Texas Instruments' SR50's were under \$300, and we were ordering them in bulk. Karl (or was it Oscar?) Tonn was Senior Stick. The Band was now drinking, marching and playing at the stadium on a regular basis, and we were the six-man football and intramural soccer champs. Mooning was now the rage at the pep rally, at beer and skits, in the halls . . . whenever! Martin Wedepohl was the new Dean of Engineering, and there were now over twenty girls in the faculty. This was the year of the Electricals' W.D. (Wooten DeGroot) Day, and of the graduation of Aldis Hallson, Dave Olinyk, Ron Fish, and half the band ("Slobbie" Patterson, "Mouse" Jonasson, Ron Meisters, Ken Bielak . . .).

1975. The year the mechanicals reconstructed a volkswagen in front of the library. The year Hedley Auld became Senior Stick and Rhodes Scholar. The year Jim Snidal ran for (and became) UMSU President. And the year Jill Lexter, Dave Krahn, Dave MacMillan, Gary Tencha and Dave Woytowich graduated.

This was the year that jobs in Manitoba were becoming scarce; the year of a mass exodus of U of M graduates to the oil companies out west.

1982. That's the year we get together again. Oulton Rogers is APEM Registrar and General Manager, Wells Peever is the APEM's solicitor, and we are anxious to find out what has become of the members of the playing-drinking-marching band.

Seems Like Yesterday

"Ben Rogers! I haven't seen you for what-nine years? Can it be that long? The Class of '73! Seems like yesterday!

Hey, whatever happened to that funny kid, you know — what was his name?? Remember the time the bus ran over his slide rule??

Those were the days, weren't they?

And those really WERE the days! I suppose every graduating class feels their year is the best; we KNEW ours was the best ever! And, thinking back it was the people that made it that way.

Remember STEVE FACHE? Sure you do! Stevie, with the muscles, and the Big Bikes! He won the great 'Trike' race in first year. Well, Steve is now Dr. Fache (M.D., not PH.D.); he's just finishing a residency in radiology in Vancouver. Hasn't changed — still has women following him around, the dog!

And BERT — Ol' "Ferd Berfel" — where are you? Bert got top marks in Cynicism 102 and Disillusionment 121.

RINDALL'S still in Hydro. No, I don't think he's G.M. yet. He's got the cutest two daughters; they obviously take after Yvonne!

CARL SABANSKI glows in the dark. One of the side benefits of working on the reactor at A.E.C.L. Pinawa.

RAY BORIS finally left Brandon; still with Hydro, though.

BRUCE KONDRATUK may still be diving for gold on Island Lake. In his spare time he manages projects for Indian Affairs. Did you learn that from Rocky Russell, Bruce? (Rocky's back from Mexico, I hear)

DON SOLKOSKI is alive and well and living in Brandon. Don arranged the recent A.P.E.M. 'Brandon Area' meeting. According to my calculations, it's now "Don XIII E" (you had to be there).

I ran into DON KREUGER in Regina. What's a kid from the bush (Thompson) doing working for P.F.R.A.?

LORNE LAUTENS and JOE ROMEO are with the Department of Highways and Transportation. Lorne designs bridges under the watchful eye of (Past President) Geo DePauw; Joe installs culverts. Seriously, Joe reviews development proposals.

ED RYCZKOWSKI is Chief Engineer for UMA Winnipeg. At the recent opening of the Canada Wire & Cable Fiber Optics facility where Ed did the electrical designs, also present were DAVE VOKEY, Manager of Design and Development for C.W.C., and RICK JACQUES c/w red bear (also C.W.C.) and yours truly. A mini class reunion! BRIAN KLAPONSKI, Engineering and Marketing Manager with Carté Electric was also there in his capacity as I.E.E.E. Manitoba Chairman.

I talked to TERRY LEWIS recently. Terry is with Telsat in Ottawa, where even the salaries are in orbit!

MORLEY SELVER is with Abitibi-Price Central Engineering in Sheridan Park, Mississauga. He's training termites to chew up the trees for one stage of the paper making process. AAH! Technology! Morley and Rosemary have three boys — he had trouble with Glen Morris' stats. course.

JOHN MCNICHOL and GREG FRASER are with Manitoba Hydro in Winnipeg. John took a masters at U of M in 1978. DAVE MAGNUSSON is there, too.

Remember DARRELL LOWRY? (His wife used to work in Richard Johnson's office). Darrell is Manager of W.L. Wardrop's office in Regina.

BRIAN LANOWAY is still working at getting the K-cycle engine on track.

JOE LUCAS, another mechanical graduate, is with Klein and Dashevsky, Consulting Engineers'. He serves on the A.P.E.M. Bulletin Committee.



Senior Stick Rogers

JOHN SLEVINSKY is City Engineer in Brandon. Looking Good, John!

Do you mechanical graduates remember WELLS PEEVER? Long haired, bike-riding Wells Peever? Wells is now a lawyer with Pitblado and Hoskin, and not just ANY lawyer, but the A.P.E.M. lawyer! And conservative, three-piece suit, short hair! (I don't know about the bike)

I last saw BOB KOOYMAN about three years ago. He was with Schlumberger, heading for the middle east, I think.

The barefoot golfer DAVE OPPENHEIMER is with I.D Engineering in Winnipeg. So is DON MULDER, who always looks good at the A.P.E.M. Tournament; does I.D. design golf courses?

KELLY KJARTANSON is an Environmental Engineer with the Provincial Government.

Where's GORDON NG MON? "MONSKI" was last heard of, back in Trinidad as Chief Engineer for the Trinidad Hilton. Does he still wear his mask? (Well, it was an improvement . . .)

BRIAN SHELLRUDE is still with Hydro, having survived Great Falls. Did Great Falls survive Brian; they're still rebuilding the dam!

To all of you I've missed, my apologies, dig out the old yearbook (Yes, we really DID things like that) or, better still, come to the 75TH Anniversary.

Can you spot the old faces, without their disguises of long (or any) hair? Can you relate jeans and t-shirts to suits and expanding waistlines? Come on out and try!

— Oulton A. Rogers, P. Eng.,
General Manager & Registrar.

Memories

By Clyde McBain, P. Eng
(Past President A.P.E.M.)

It would be a rare person indeed who has attended University and does not have enough memories to last a lifetime. Certainly I have — and possibly more than most (probably due to my spending more time as an Engineering undergraduate than was contemplated by the University calendar.)

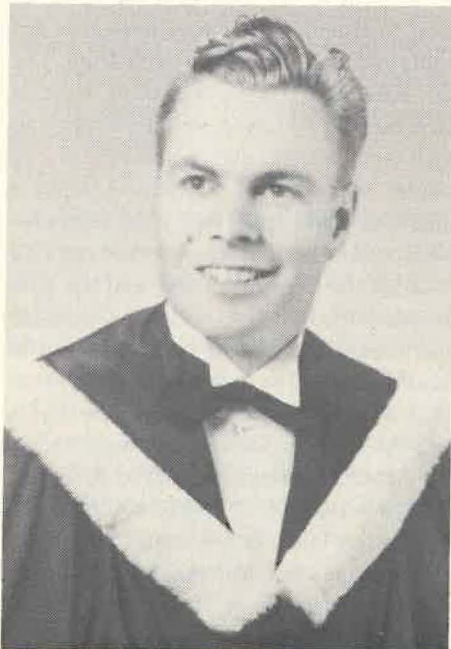
Again, and probably not surprising as you get older, it is the people you meet and the friends you make who give you the best and most lasting memories.

I remember survey school in 1950 — having to quit because the flood water was rising and then going directly to work at sandbagging on the dikes. I'm sure my first grey hairs were caused by riding to U in Herb Till's old car — it had cable brakes, they used to freeze up, and we used to travel all the way non-stop, red lights and stop signs notwithstanding. The old Roseland Dance Gardens were a favorite spot when we were in funds, and with a nice girl, and a mickey of rye (under the table of course) — what a time you could have! My most memorable Roseland experience occurred one Fall — after the dance was over and the girls dropped off, Bob Byers, Harry Cochrane and I went straight to Netley Marsh to hunt ducks — the lucky birds have never been so safe before or since! Bob Byers and Al Francis worked one summer in the Alberta oil fields — and to get home they invested in a 1936 Plymouth — the Big Green Unit. It got reasonably good gas mileage, but unfortunately used at least as much oil as it did gas, and to watch it roll down the highway was enough to make a navy veteran think of

a destroyer laying a smokescreen to cover a war-time convoy. Our old buddy John Klassen earned the nickname Straight Line Klassen — he used to get his parents' car and offer to drive us in the general direction of home, but never deviated from the shortest line between the campus and his home. Gasoline was expensive in those days too! I remember great summers working on power surveys on the Nelson River, and playing poker in our tents using transit boxes for seats. Al Knight, Bob Gottfred, George Skinner, Ayuah Mohammed, Jim McGuirk, Joe Gurowka, Jim Conway, Gerry Clayton, Bill Beley, the late Jack Verner, John Klassen, and others made these memorable experiences.

There is, of course, lots more — a lifetime of memories, and how fortunate we are to have them.

— C.R. McBain, P. Eng.



Young Clyde McBain

The Class of 1971

By Frank Roberts, P. Eng.

The class of 1971 seemed bound eternally to sit squarely on the "leading edge" of change. As we entered the University towards the end of the perilous 60's we were initiated into an old institution steeped in traditions of freshie parades, and freshie raids through the other faculties and residences. But somehow it changed, even as we tried to acquaint ourselves with this solid institution. Traditions were swept away amid the new phenomena of pacifists, activists, anarchists and those who were more akin to catatonics.

The computer was new. Although its language was cumbersome and its hardware was monstrous, we were soon faced with the use of numerical methods in many subjects where we were not comfortable with it or it with us. While the computer was new the hand-held calculator was still unheard of. It is hard to think back to doing all the calculations of an engineering course using a slide rule.

Engineering has always been somewhat of a pressure cooker. We found relief, as did classes of years before and after, through sports and campus activities but more often at the invincible "Montcalm" or the "Voyageur". These places did not just afford relaxation — they held a challenge. Through first, second and third year with most of us aged 18 to 20 it required some boldness to casually saunter in and belt back a few drafts which after all was what we had been led to believe engineering was all about. Finally came fourth year and as we turned 21 there was a certain smugness about being legally in the pub while others sat in fear of being asked for their I.D.

But change once again caught up with us! How utterly deflating and demoralizing to turn 21 within a month of the legal drinking age being dropped to 18. The intrigue was gone!

Certainly if change was what we had most to cope with then our years in University prepared us well for our lives to follow. If that was the "leading edge" then we see now the turbulence which tumbles by.

The faces of each one of my classmates are as clear to me now as they were that decade ago. I feel yet that I could sit down in class again and continue writing notes in calculus as if the day had not passed. As I see a number of those faces today nothing seems to have changed and we are those same people we were in class. Yet as I look back through the yearbook how young our faces looked. I long to see as many of those faces as possible again in July.

1962 with Wally Rooke

1962 — was the cat's ass! The year a furry feline cartoon courtesy Trevor Wignall and numerous anonymous imitators, caused panic in VLD and his architectural parabaloids.

1962 — was the year of the King of the World, with Bob McKibbin's evangelical spiel leading a cast of thousands through a ceremonial arch of T squares to welcome King Don Ramsay and Queen Gerald Lackey to the Engineers' kingdom. We did share a small corner of our world with an 80-year old pretender to the throne. As usual the Manitoban didn't understand.

1962 — staged a memorable Grad's Farewell, climaxed by Rich Gitten's demolition of the hotel's bathroom door, either to rescue his wife locked inside or to get at the bathtub full of beer.

1962 — was the climax of the world's longest penny curling bonspiel, with the Ray Roscoe rink pitted against Dennis Deagle at the Brain Exchange cardboard rink.

1962 — grads had long ago adopted a whistled version of the Colonel Bogie march as their theme song, having driven Mr. Lewis from the drafting room with their discordant unison 4 years earlier.

1962 — was the year Alvin Macatavish changed his name to Al.

1962 — was the year of overtime in the Stanley Cup playoffs, with Phil Wake still thinking he won the hockey pool.

1962 — was the year of the red cumberbund, symbolic of an early Civil triumph of spreading terror and hope into the hearts of Home Eccers with Carling Red Caps dotting the campus, courtesy Les Crosthwaite.

1962 — was the year when
 Larry Foster mastered his pipe but still wouldn't line us up with the chicks in his car pool!

. . . . Ed Lipinski won another golf tournament;

. . . . Wayne Sorby found time out of the gym to graduate;

. . . . Dave Johnson surprised us all by showing up at three consecutive classes;

. . . . Jack Richtik finally took his slide rule off his belt;

.... Vern Rampton constituted a whole department;
 Ken Dedrick designed his first bomb shelter;

.... Bob Johansson sold his first Chevy;
 Pat Coinner donned his coat of many colors.

Council Meeting February 8, 1982

by S.M. Matile, P. Eng.

At 3:40 p.m. on Monday, February 8, 1982, and under great duress, Council President Jardine called to order a meeting attended by Councillors Cross, McNichol, Isaak, Fulton, Foster, Morris and Haywood, and General Manager and Assistant General Manager Rogers and Dunklee.

Several items were added to the agenda; the minutes of the January 11th meeting were adopted as amended; and all licences, engineering graduates, registrations and reinstatements were approved. It was decided that the practice of showing the ages of the applicants on the lists for approval was in contravention of the Human Rights Act, and would be discontinued.

The next item on the agenda was the assessment of a penalty for late payment of examination and administration fees for those enrolled in the examination programme. After much discussion, Councillor Morris moved that a penalty of \$25.00 be assessed for any fees submitted after January 15th (the deadline) and before January 25th. After the 25th, no applications would be considered. The motion was carried.

Next came the appointment of Committees, as follows:

1. Admissions Review Board — Dave Cross (Chairman); Grant McNichol (Vice-Chairman)
2. Consulting Engineers — Dennis Whittaker (Chairman); E. Weiszmann; G.H. Currie; H. Haak; J. Klein; J.G. Malus; R. Morrison; A. Penman; B.J. Rossen; J.L. Babletek
3. Membership — Chuck Whalen (Chairman); Gren Yuill; A.F. Eshmade; A.A. DeLuca
4. Practice and Ethics — Dave Ennis (Chairman); Ray Scouten; C.R. McIntyre; Frank Fowler; Al Lansdown; Walter Saltzberg; Russ Hood
5. Salary Schedule — A.D. Round (Chairman); N. Fedorchuk; C.E. Ireland; B.D. Rindall; B.F. Klaponski; C.E. Anderson; D. Duncan; F.S. Gira; W.P. Clement; Amjad Mian
6. Sports — V.W. Becker (Chairman); A.H. Permut; A. Cornies; A.E. Gibb; J. Boge
7. University Liaison — W.J. Horner; E.T. Cheong; D.G. Chapman; W.R. McQuade; N.B. Ulyatt; M.V. Klein; A.D. Gould; D.R. Grimes
8. Continuing Competence (Ad Hoc) — R. Borland; K.A. Buhr; E.F. MacKenzie; G.E. Sims; J.H. Bachmann; R.O. Lambert; B.D. Rindall; G.C. Swan; R.M. Stokes (For this Committee, the proposed Terms of Reference were discussed, amended and approved, and it was agreed that there should be an additional member representing the University of Manitoba.

Councillor Isaak observed that there is only one consultant on the committee, and asked if Council considered only consultants to be incompetent).

The next item on the agenda was the appointment of the Executive Committee. This Committee comprises the President, the Past President, the Vice-President, and one other council member. The first three positions being filled automatically, a fierce battle raged for the fourth position, with Bob Foster and Glenn Morris splitting the votes evenly.

At this point, the meeting was adjourned so that Council could indulge in sandwiches and cookies and watch Wells Peever, the APEM's lawyer, search Bourinot's rules for the correct procedure for breaking a tie. Wells having decided that the chairman could cast the deciding vote, and Ken Jardine having decided that he would prefer to avoid expressing an opinion, it was decided that Councillors Foster and Morris would be given until the next Council meeting to campaign, and the meeting reconvened.

Next came the CCPE news. President Jardine announced that Gilles Perron would be attending the March 8th Council Meeting to update Council on CCPE matters. He also said that there would be a CAB meeting on February 18th and 19th in Ottawa. Councillor Morris, who had planned to attend anyway, volunteered to act as an observer for the APEM. Council was then presented with the CCPE's proposed "National Guidelines for Offering Professional Engineering Services", and asked to comment. One Councillor summed it up quite succinctly: "harmless, but quite unnecessary". Council agreed that the proposed guidelines contained "nothing objection-

able", and asked General Manager Rogers to write and tell the CCPE so.

The Salary Schedule Committee had requested approval from Council for a new survey. This would cost an estimated \$2,900, due to the high cost of mailing, and Council was concerned that the returns may not be representative, anyway. It was decided that Art Round be invited to the next Council meeting to determine whether such a survey would, in fact, be worthwhile.

A report was received from the Consulting Engineers' Committee, which is looking at increasing the recommended fee for Principals to \$75 per hour. The Committee will be substantiating this recommendation at the next Council meeting.

Finally, John Fulton, our Thompson Councillor, proposed that the April Council meeting be held in Thompson, to which everyone was agreeable.

The meeting adjourned at 8:00 p.m.

New Members

D.P. Barchyn, G.N. Bucholtz, E.H.S. Fung, P.J. Horvath, C.T. Lui, E.A. Trost, T.R. Drennan, T.J. Szkolnicki, R.C. Blunden, B.J. Thompson, S.J. Singh, P.C. Baracos, M.I. Elnaggar, M.A.F. Fedikow, W.C. Hood, R. Pearson, B.D. Semchuk, I. Shpancer, D.W. Shwaluk, F.D. Stern, L.L. Tecter, N.A. Chandler, B. Fry, J.G. Kelly, R.K. Lyons, A.A. Ali, J. Blenkiron, S. Chan, R.W. Diakiw, A. Jenkins, M.A. Kirby, L.J. Kuczek, C. Militano, J.S.D. Parker, M.J. Ross, T.E. Snure, Jr.; A.S. Vernon, T. Voutsinas, B.F. McCormac, S.Y. Reitsma, E. Wojczynski, G.R. Pool, P.G.S. Trainor, H.T. Goldie, K.H. Ng, G.A. Russell.

Who's Who??

Councillor Bob Foster, Ed Faraci, Ken Lailey, Al Macatavish, Rudy Schilling, Jack Yellowlees, Vic Steciuk, Larry Buhr, Carl Pentilchuk, Bob Kirk, Vic Becker, Guy Cooper.



Who's who, reading from top left — Rudy Schilling, Jack Yellowlees, Ken Lailey, Al Macatavish, Carl Pentilchuk, Steciuk, Larry Buhr, Bob Foster, Bob Kirk, Vic Becker, Vic Steciuk, Ed Faraci, Guy Cooper, Vic Steciuk, Larry Buhr, Bob Foster, Bob Kirk, Vic Becker, Al Macatavish, Ken Lailey, Carl Pentilchuk

Council in Thompson and Brandon

Council held its April meeting in Thompson, leaving Winnipeg at 7 a.m. on April 12. Registrations, licences, transfers and engineering graduates were studied and approved. Gary Swan was appointed as this Association's representative on the Advisory Committee for Engineering and Technical Education. Voting procedures for electing executive members were approved. Spouses travel is to be assumed by the A.P.E.M. where it is appropriate that our representative should be accompanied by his wife. Council discussed by-law amendments that will go before a meeting on June 15, and approved the terms of reference of the Consulting Engineers Committee.

Then it was time for a meeting with Thompson members who fired questions and views at Council for about an hour. The dessert came after the serious matters were digested — a reception and an opportunity to visit with the Thompson engineers, to find out how the bridge was coming along, (Blake and Martha Maxfield staged a come-back, or so they felt. George Stewart was not convinced.) Eric Wilson, Councillor John Fulton, Bill Clement and Blake Maxfield were once again in the forefront of the northern hospitality.

* * *

Brandon engineers didn't have the benefit of a Council meeting held in their area, but they did fire some of the same questions at a general meeting as had been aimed at Councillors in Thompson. The Brandon meeting drew members from Boissevain, Birtle and Dauphin, and they didn't let Councillors off the hook until it was noticed they were turning into

pumpkins. Registrar Rogers drove sleeping Councillors back to Winnipeg and deposited them at their various homes shortly before 2 a.m.

It is hoped that engineers in both Brandon and Thompson will be better informed about the Association as a result of these meetings. Now if something could only be done about Winnipeg engineers. If we could draw the same percentage in Winnipeg as happens in Brandon and Thompson we would have to hold our meetings in the arena.

Licences Issued

G.F. Bourassa (Sask.), T.W. Cochrane (Sask.), S.W. Hagemoen (B.C.), A. Kovic (Que.), C.S. Seaby (Ont.), H. Ahmad (Ont.), B.N. Deegan (Alta.), E.S. Deutsch (Ont.), D.D. Dunbar (Ont.), R.W. Gush (Sask.), J. Kirwen (B.C.), G.E. Mulvey (Ont.), K. Ojala (Ont.), P.G. Stipanitz (Ont.), J. P. Dueck (Alta.), W.G. Lee (Ont.), T.W. Purdy (B.C.), G.E. Selme (Alta.), B. Singleton (Alta.), E.F. Vickers (Ont.), A.D. Williams (Alta.), J.C. Draper (Que.), H. Mirasyyedi (Que.), E.L. Poole (Ont.), J.L. Smith (Alta.), H.G. Berger (Ont.), D.H. Featherstonhaugh (Ont.), R.W. Kennedy (Alta.), N.L. Leipziger (Ont.), B.J. Lukes (Ont.), J. Misic, (Alta.), J.A. Patra (Alta.), D. Pristach (Ont.), A.A. Ravins (Ont.), R.W. Savage (Ont.), B.F. Tessler (Ont.), J.M. Tupling (Ont.), Z.L. Szeliski (Que.), J.J. White (Sask.), D.J. Morrow (B.C.), P. White (Ont.).

Oops!

Our Council reporter erroneously reported that \$10,000.00 would be spent publishing the names of new members in the local press. The actual figure would be closer to \$1200.00. To err is human.

THOMPSON



FACULTY OF ENGINEERING REUNION

A.P.E.M. OASIS

DROP IN TO THE A.P.E.M. ROOM
IN UNIVERSITY CENTRE
THURSDAY EVENING July 1,

ALL DAY July 2 and 3

**POST YOUR BUSINESS CARD WITH US
SO YOUR FRIENDS WILL KNOW YOU ARE HERE**

HAVE A CUP OF COFFEE — MEET OLD FRIENDS

Nominations Wanted

Merit Award

The Merit Award is intended to recognize outstanding achievement by an individual member or group of members of the Association including the direct advancement of the profession of engineering in Manitoba.

Outstanding Service Award

The Outstanding Service Award is intended to recognize outstanding service rendered to, or on behalf of the Association of Professional Engineers of the Province of Manitoba by a member of the Association.

Life Membership, Honoris Causa

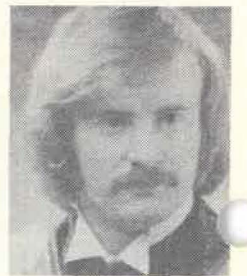
The granting of Life Membership, Honoris Causa is intended to recognize meritorious service rendered to the Association.

Please contact the Association office
— 942-6481 —

Engineering Graduates Enrolled

W.A. Macaw, A.R. Robinson, K.R. Drysdale, R.H. Rob, W.D. Shaw, W.A. Slack, W.T. Shymanski, M.W. Townsend, T.W. Zulkoski, R.W. Demianyk, C.K. Wong.

Who Are These Youngsters?



Nick Diakiw, Charlie McIntyre, Ed Lundman, Jack Karras, Art Sparling, Jim McGuirk, Jack Iliffe, Bill Brisbin, Jim Warrenner, Bob Jeske, Ichero Teranishi, Les Wardrop, Reg Blackman, Brian Faurschou, Bill Hanuschak and Wells Peever, the A.P.E.M. solicitor who got a degree in engineering before taking law.

Council Meeting May 10, 1982

By R.A. Kane P. Eng

The opening salvo came at 3:30 P.M. when Ken Jardine noted a quorum was present and business could begin. It did, with the approval of an agenda of twenty-two items which was increased to twenty-three. Council handled as a group the passing of new Licences, Engineering Graduates, Transfers and Registrations. There was only one concern voiced where one candidate showed his engineering school as being Tri-State University, Angola. After some searching around it was found that it is Angola, Indiana and not the more widely known African country.

A single reinstatement was handled independently and passed.

A report from Dick Johnson on C.C.P.E. was circulated and reviewed. Council expressed a concern which they will ask Dick to convey about the budgetary allotment to the Canadian Engineering Manpower Council (C.E.M.C.) which seemed to be getting a disproportionate increase against the explanation given.

Since Ken Jardine is to be in the area of the next CAB meeting he was appointed as the APEM observer. Finally on CCPE, Council instructed Dick Johnson to see if he could get Winnipeg on a list of sites for C.C.P.E.'s annual meeting.

Moving right along, Council then addressed itself to a proposed list of By-Law changes which will be put before the membership at a special meeting in June. With only a very minor change in the

wording of one of the By-Laws Council accepted the changes for presentation at the Special Meeting.

A number of Committees were assigned Liaison Councillors. While on the subject of Committees a new committee was struck made up of Fred Jost, Bob Foster, and Dick Haywood, which to the chagrin of one of the members will be called the Review Committee of Committees. It is charged with assessing all of the APEM'S standing committees as to their respective terms of reference and to check with other Associations to see what they are doing.

A letter from the P. and E. committee was endorsed by Council, which in essence told a member that withdrawal of engineering services because of a strike may be deemed by the Association as a breach of its Code of Ethics. The member must make up his own mind and be prepared to accept the consequences either way.

Before breaking for supper Council received a delegation from the Ad Hoc Committee on Continuing Competence. Their report was extremely thorough, and their answers to the questions of Council were sufficient to cause Council to pass the following three pronged motion:

- (1) Express Council's appreciation for their work.
- (2) Council basically accepts the precept of a voluntary action of improvement in engineering skills.
- (3) Council will establish a standing committee on continuing competence.

The Committee will be made up of nine members whose terms of reference will be:

- (a) Develop a practical voluntary competence program to monitor continuing competence activities of individual members of the Association.
- (b) Continue to monitor the activities of similar organizations in the U.S. and Canada and other professions.
- (c) Monitor the voluntary program on a continuous basis making improvements as required to maintain a workable effective program.

All of the above will be presented at the meeting in June for general discussion by the membership.

A report by the Consulting Engineers Committee was endorsed accepting their proposed recommended fee schedule tying the Consulting Engineers' fee structure to the Annual Salary Survey.

Believe it or not, we are only two thirds done, and it is already 7:00 P.M. but without even a passing notice of the clock on the wall Council plunged into a general discussion of the plight of the Premier's Award for design excellence. They felt that the awards were brought into question when the Premier was given one of his own awards for no design at all. Further the restriction of submissions by size was deemed ludicrous, and a letter expressing A.P.E.M.'s grave misgivings will be issued to this group.

A discussion on engineering participation in social issues consumed far too much time since no one could even find out how A.P.E.M. should be involved nor what good it would do.

Because time had run out Council quickly approved paying for a quarter page ad in the U. of M. Engineering Yearbook.

A letter was discussed wherein a member of the A.P.E.M. wondered about transferring from one provincial jurisdiction to another. The upshot of the discussion is that acceptance in Manitoba of one's credentials does not give automatic entry into another, and that the candidate when making a move will be judged by the group to which he is moving. C.C.P.E. is aware of this lack of universality and plans to discuss this, but for the moment that is the position.

Five items on the agenda were deferred meaning that the meeting could conclude with Ken Jardine requesting that as many members of Council as possible make themselves available to the A.P.E.M. booth during the U. of M. 75th anniversary reunion.

The meeting concluded at 7:50 P.M.

SEE YOU . . . AT THE REUNION !

**July 1, 2, 3, 4
DROP IN TO THE
A.P.E.M. OASIS**

—
UNIVERSITY CENTRE
—

Faculty of Engineering Reunion July 1-4, 1982

If you run into these professional engineers at the reunion will you recognize them?



From upper left to lower right they are Ted Rimmer, Gerry Kendall, Bud Christie, Al Francis, Walter Saltzberg, Frank Roberts, George Minaker, Richard Johnson, Bob Stokes, Wally Rooke, Keith Walker, Merv Robinson

THIS IS WHAT WAS SAID — IN THE SLIDE RULE



VINCENT LIU

Vince (alias Jeffery) came to us from Hong Kong. Starting out at a technical school, his own ambition and drive has made him an "honourable member" of this graduating class. His future is either a structural job in Toronto or Post Grad. work in Structures. On his favourite subject, the opposite sex, he often quotes his most venerable grandfather "Ping" Pong Hoi - his favourite quotation being "two loose in bush better than one in hand".



LARRY WHITNEY

IVC's answer to Jackie Gleason skips his own rink and is Engineering's Curling Convenor. He is also the high-scoring left-winger on the "Married Marauders". Larry plans on being a Municipal Engineer, possibly for Ontario Water Resources.



ALEX E. BURNSTEIN

Graduate of St. John's High. President of Zeta Tau Alpha Fraternity and participates in football, curling and basketball. Alex will be tying the nuptial knot in June and start worrying about employment.

ROBERT McKIBBIN

This charmer with the continental approach will leave many broken hearts behind when he goes to Hamilton for a job with Stelco. Bob spent his fifth and final year as chief engineer for SPD. Naturally his pleasing smile and winning personality should lead to success, marriage and everything that goes with it.



EDWARD SMENDZIUK

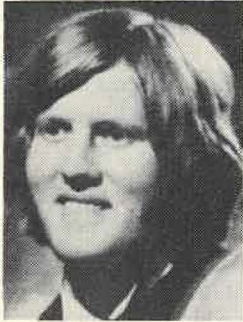
Hails from Fishing River and graduated from Dauphin College. He is one of the fortunate fellows who owns a car of his own and supplies a fairly regular taxi service to the Soda Shop. Ed plans on doing post-graduate work. (In addition to taking the big step?)

LAWRENCE F. SCHMIDT

Lawrie comes to us from D.M.C.I. and United College. One of the many married men of the class, he is active in Kappa Sigma Kappa Fraternity and is distinguished by his little red car. Lawrie's future interests lie in the concrete and consulting fields.



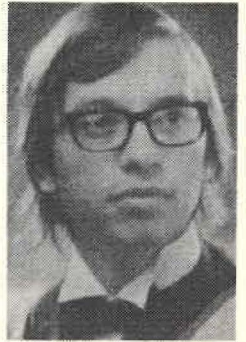
FRED KARDEL ... Fred "ask a question" Kardel can usually be seen with his arm up in class. Recently married, he now has a tough time getting up for classes. His outside interests are handing in assignments early, coffee breaks, drinking, and pulling Steve's hair in class, and going to bed early. Fred is destined to become a snap-on diode maker.



RICK JAQUES ... Rick was one of the more honest, quiet guys in class. Like the old saying goes, "Quiet men are dangerous in dark corners I hope the MTS Bldg. has good lighting, or Borowski will be "scrutinizing" Manitoba Telephone.

BRIAN KLAPONSKI ...

"Klapper" has one main ambition - to find a job. Probable occupation: job hunting. Brian was an avid member of the "bush" hockey league which won one game (by default?) in two years. Klapper also hopes to improve his golf game, and success is imminent; after all, who can't break 150?



GEORGE SCHULTZ

Geo. hails from D.M.C.I. and is a staunch supporter of football and hockey. Always thinks they do it a better way at Dominion Bridge. This might account for George's being a keener?? Future looks promising as a structural designer.

BARRY W. PRENTICE

The pride of Souris Collegiate, Barry is a keener?, and a member of the Hotelmen's Association. He is an Ontario Highways Department "hardrock," but his ambition in life is to work for big money so he can buy a new Ford with his first paycheck.



BARTON J. ROSSEN

A big man in the Lumber Industry, Bart came to the campus via Kelvin High School. As well as participating in curling and rifle teams, Bart was an active member of Sigma Alpha Mu Fraternity. Although in good health, General Hospital seems to hold a great attraction for him . . . Future?? Post grad work in Business Administration.

The University of Manitoba Faculty of Engineering 75th Anniversary Reunion

PROGRAM

Thursday, July 1, 1982

1500-2100h

— Arrival and Registration — Information and Registration Centre, UMSU Council Chambers, University Centre.

1900-2200h

— Wine and Cheese Reception, Multipurpose Room, University Centre.

Friday, July 2, 1982

0815-1015

— Pancake Breakfast, Multipurpose Room, University Centre.

1000-1030

— Musical Presentation, East Gym, UMSU.

1030-1130

— Opening Program, East Gym UMSU.
— Welcome to U of M — President Naimark.
— Welcome to Faculty — Dean Kuffel.
— Opening Address — Nick Diakiw,
Chief Commissioner,
City of Winnipeg.

1130-1300

— No-host lunch — on or off campus.

1300-1600

— Engineering Open House, Engineering Bldg.

1500-1900

— "Alumni Olympics" and Beer Garden — University Centre and Quadrangle, Fun "athletic" events such as the 26 meter marathon, 5 meter sprint, volleyball tournament, boat races, etc. (Get your volleyball and boat race teams lined up early).

1800-2000

— Giant Western Barbecue for the entire family, Pan Am Stadium.

Saturday, July 3, 1982

1200-1400

— Engineers' Alumni Assoc, Annual Meeting and Luncheon.

1400-1700

— Class Group reunions or free time.

1800-1930

— Cocktails, Winnipeg Convention Centre.

1930-0100

— Banquet and Dance, Winnipeg Convention Centre
— Music by Jimmy King's Orchestra.

Sunday, July 4, 1982

— Open for Class Activities.