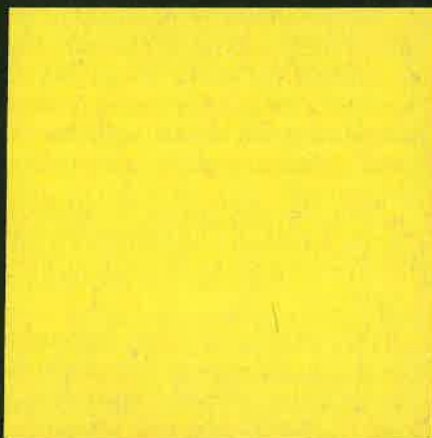
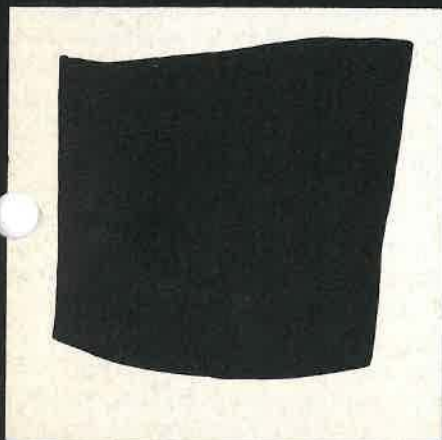
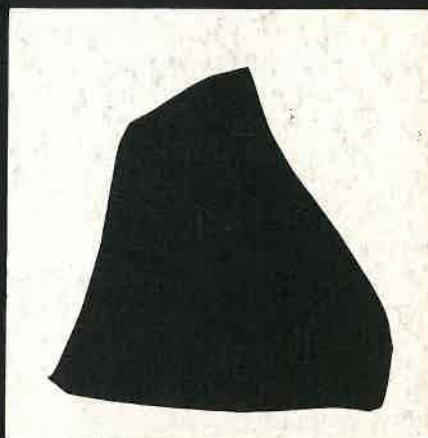


Bulletin

April

80

*The
Manitoba
Professional
Engineer*



Published by the Association of Professional engineers of the Province of Manitoba
710 - 177 Lombard Avenue, Winnipeg, Manitoba R3B 0W9

President — W. Saltzberg, P.Eng. Vice-President — R. C. Isaak, P.Eng.
Managing Director and Registrar — T. W. Algeo, P.Eng.
Council — W. P. Clement, D. E. Cross,
K. M. Jardine, R. A. Johnson, F. A. Jost, J. W. J. Lewis, G. W. Swift

The Manitoba Professional Engineer is published under the direction of
the Bulletin Committee.

Editor — R. A. Kane, P.Eng. Associate Editor — L. F. Schmidt, P.Eng.
Committee Members — E. A. Speers, C. H. Templeton,
O. A. Rogers, R. F. Piotrowski,
S. M. Matile, B. V. Halkewycz, Paul Shane, E. W. J. Clarke
B. A. Fauschou, S. J. Armstrong, D. J. Frost, G. A. Smith

Correspondents — F. S. Gira, Flin Flon; D. S. Taylor, Lynn Lake-
Leaf Rapids; B. E. Maxfield, Thompson
Production Manager — Loreen Dunklee

*Opinions expressed are not necessarily those held by the A.P.E.M. or
the Council of the A.P.E.M.*

WINNIPEG, MANITOBA, APRIL 1980

President's Message

By Walter Saltzberg, P.Eng.

The 1980 Premier's Awards for Design Excellence, presented recently and reported in more detail elsewhere in this issue, denote again the valuable achievements of our profession.

The prominent involvement of graduates of the University of Manitoba Faculty of Engineering in the design and development of the winning entries is definitely noteworthy and stands as proof of the capabilities and importance of this faculty.

With this mailing, you should have received a notice of a General Meeting of the Association to be held in the near future.

This meeting is your opportunity to speak out and express your point of view on a number of issues requiring a great deal of thought and soul searching. The

issues, such as continuing competence and recognition of technologists, may bear a great influence on the way the practice of Engineering is carried out in the future.

The questionnaire on recognition of technologists, mailed out under the signature of Past President R. A. Johnson, resulted in a flood of eleven replies last year. Such a membership response hardly qualified as guidance to your Council, except to suggest either a total lack of interest in this issue or, even worse, a total lack of interest in reading the Association's mail and therefore, in its activities.

I highly recommend that you come to this meeting and express your views, but please come prepared, read up on the subjects, and talk to your colleagues. The meeting will be informal and you need not worry about fine print or formal votes.

I am disappointed that there has been a noticeable drop in attendance and involvement of members at committee meetings, with at least two committees at this moment no longer functioning as a result. A

considerable improvement in involvement by members in Association activities is imperative for the Association to function properly.

High and Lowlights of Council Meeting Held February 11, 1980

The meeting began punctually at 3:30 but this reporter was a few minutes late. I was stopped in the concourse by a Liberal candidate who was campaigning and uttering slogans such as "a vote for the Liberals is a vote for no increase in the price of gasoline".

As I rushed past Mrs. Dunklee she asked me what my favorite colour was. After replying macho pink, I was handed an appropriately colored catheter bag and was told that "it will be a long one" ("it" meaning the meeting). Indeed it was and lasted till 8:15.

Council continued its normal practice of not introducing the Bulletin Reporter but I was soon made to feel welcome with comments from members such as; "I hope he'll let me bum some smokes" (John Lewis); "I thought I failed him" (Prof. Johnson); "Hide the food, he looks hungry" (Bill Clement); "Since when did we allow short guys into the Association" (Walter Saltzberg) and finally "I bet his boss wears a dirty T-shirt when delivering beer on week-ends" (Rudy Isaak).

Professor Johnson presented a verbal report in soliloquy form outlining his overview as president in 1979 and summed up his term as follows "In some respects my term has been miserable at times but I wouldn't have missed it for the world".

Elections were held for a fourth member to the Executive/Finance Committee. Everyone was nominated, but only two let their names stand. While members were

casting their final ballot, John Lewis tried to sway the group by showing a photograph of his new hair-cut. This new technique was effective since John became elected.

It was agreed to hold a special Association meeting tentatively scheduled for March 4 at the Viscount Gort to discuss principal topics on "Recognition of Technologists under the Engineering Profession Act" and "the need for a separate self-interest engineering group".

Dean Kuffel appeared as a delegation to request assistance from Council to develop a strategy which might be effective in diverting more funds to the Engineering Faculty. Strategies were discussed and Council voted to carry out a selected plan of action to assist the Engineering Faculty. In order not to let the cat out of the bag and prejudice their case, the Bulletin, after endless hours of deliberation, decided not to publish Council's plan of attack such as letter writing, lobbying, pleading etc.

Council voted that proposed changes to the Act and By-Laws be prepared regarding Corporate Practice. Rudy Isaak brought up the issue of investigating personal liability further instead of just changing the act. Now this Councillor is a man "after my own pocket book".

Dean Gould appeared as a delegation representing the Employee Engineers Committee which in his opinion does not exist since Dean as chairman is not invited to meetings. It appears that his committee

is swaying more to forming a self-interest group without A.P.E.M. involvement. It was moved that discussion be suspended until after the Special Meeting of March 4. Dean was excused and told not to overspend his food budget when chairing his committee's subsequent meetings. The Reporter heard Mr. Gould humming a familiar tune called "Oh Lonesome Me" as he left the Council office.

John Lewis presented his report from the "New Premises Committee". Having rejected Las Vegas, Orlando, and Disney World as possible locations for new premises, Council agreed that the existing facility should be re-investigated. The other alternative would be to follow the example of the Architects Association by leasing a "hole in the ground" and re-decorating with mirrors, plants, original

paintings and models (materialistic).

Messrs. Lexier and Klein were recommended by Council to serve on the Winnipeg Building Commission.

It was agreed that an APEM lending library not be established for goodies such as the Tritschler Report.

Finally, Council discussed an invitation to attend an organizational meeting at the Holiday Inn regarding a Credit Union for Professionals. Everyone dug into their pockets to collect enough change for parking charges to send a delegate and since the grand total came to 48 cents it was agreed no one could afford to go to this meeting.

The meeting concluded with a draw to see who would stand in line first at the men's washroom. As tradition would have it, the Reporter was excluded from the draw. — R.F.P.

Multiple Disciplinary Use of the Seal

The Practice & Ethics Committee was recently requested to review a group of drawings that were sealed by one engineer but were reported to include structural, electrical and mechanical engineering drawings. Examination of the drawings indicated that they were primarily structural in nature and that the few drawings with electrical and mechanical titles were not electrical or mechanical design drawings which could be considered as engineering drawings.

Therefore, the Committee concluded that the engineer had not been involved in the **improper** multiple disciplinary use of his seal.

In some instances an engineer may be competent in certain aspects of more than one discipline but the Practice & Ethics Committee recommends that all members and licencees be aware of the following:

Code of Ethics 3.1 The Professional Engineer shall advise on, design or supervise, only such projects as his/her training, ability and experience render him/her professionally competent to undertake.

By Law 41, 1(b) All final and working drawings, estimates, specifications, plans, reports and other documents involving the practice of engineering when issued shall bear the **signature** and seal of the engineer who designed the work described or illustrated by them, as well as the **date** they were stamped.

Those licensed by the Association are instructed by letter to use their own provincial seal on their work and add a statement that they hold a Temporary Licence, expiring . . . (use applicable date) . . . , to practise as a professional engineer in the Province of Manitoba.

T. W. Algeo, P.Eng.,
for the Practice &
Ethics Committee.

Lake Placid

By B. V. Halkewycz, P.Eng.
Olympic Reporter

In keeping with tradition, the Bulletin had an on-the-spot reporter covering events at the XIII Olympic Winter Games at Lake Placid, New York. The majority of the coverage centered around the bar in the



Ramada Inn, headquarters for the C.T.V. crew at Lake Placid. A positive tone was set for the reporter when, while travelling through up-state New York, he viewed Canadian flags fly-

ing and Thanks Canada signs hanging everywhere. A highlight was reached at one pub with a sign "If You're A Canadian, the First Drink is On the House".

Already much has been written and said about the sporting events which occurred during the Olympics at Lake Placid and the heroes of the events. Suffice to say that this year's Winter Olympics were extremely enjoyable and had a casual, courteous atmosphere supplied by the host community.

The visual sights and experiences felt by this writer, have left a memorable impression and lead me to nominate awards of a lesser or greater nature to the following variety of individuals and activities.

Nominated Awards

Sportsmanship Award: American Media for not broadcasting the fact that a Canadian (Quebec) bus company had the contract for providing shuttle bus service at the Olympics.

Management Decisions Award: Awarding the bus contract to lowest tenderer. Of the 300 buses contracted for, supposedly only 40 operated on the first day.

Expediency Award: The Governor of

New York State declaring a state of emergency to circumvent labour statutes concerning shift hours for drivers.

Transportation Engineering Award: "We ran the bus transportation model through the computer and it works."

Most Valuable Real Estate Award: Seat around the T.V. at the Ramada Inn carrying the only live (C.T.V.) Television coverage of the U.S.A.-U.S.S.R. hockey game.

Ticket Rip Off Award: Paying \$28.00 for the privilege of climbing half way up Whiteface Mountain to witness a passing blur during the downhill skiing contests. Some events cost up to \$67.00 per seat.

Top Equipment Award: Company supplying bindings used by Canada's Ken Read.

Believable Illness Award: The U.S.S.R.'s reigning men's world champion, Vladimir Kovalev's sudden illness after doing poorly in the compulsory figures. Mr. Kovalev was reported to be observed at the hockey matches immediately after.

Paradox Award: I.O.C. not allowing Taiwan to participate in the Olympics under their chosen flag even though many souvenirs were "Made in Taiwan".

Most Medals Per Population Award: Liechtenstein (two golds, two silver) four medals for 25,000 people.

Local Egotist Award: "If nature can't provide the snow, we'll make it." So as not to contaminate the product the natural snow was scraped off.

Clairvoyance Award: A.B.C.'s pre-taping the introduction to the Olympics by filming Whiteface Mountain last winter (when real snow was on the ground).

SEE YOU IN CALGARY IN 1988!

LETTERS

REBUTTAL

Dear Sir:

In an article in the February 1980 Bulletin under the heading "Professionalism vs Whining", it appears that we are being challenged to say what we think.

The article seems to be a hodge-podge of complaining about alleged critics of the Bulletin, of worrying about our public image and of the fact that the general public does not completely understand the significance of stamping engineering documents.

Frankly, I can't get too worked up about any of these supposed problems. What does disturb me is that that particular article should become public knowledge and perceived as representing views of the profession.

In complaining about the critics of the Bulletin, the author of the article tries to impress us with the amount of volunteer effort that goes into its publication. Before he does that he would do well to find out if publication of the Bulletin is supported by the majority of the members — at the same time, of course, letting the members know by how much their annual membership dues would be reduced by not having it.

There are some members who consider that the APEM should not be engaging in any extraneous activities other than licencing and policing. As an analogy it might be compared on the one hand to the Motor Vehicle Branch who have the responsibility to issue driving licences to properly qualified individuals, and on the other to the police who have the responsibility to bring our driving infractions to the attention of the courts. So far as I know neither of those organizations feels that a portion of our driving licence fee is to be expended by them in arranging, for example, social events and sporting activities for those who are licenced to drive.

I accept that technical and social contact between Engineers is highly desirable if not actually essential. I do, however, not consider that the APEM should be in that business. Instead, this should be handled by technical associations to which engineers may belong or not as they wish.

The propriety of the APEM conducting and publishing the results of salary surveys has already been questioned — particularly trying to impose recommended scales on our employers. There may well be a need for that but the APEM should, in my view, not be fulfilling such a self-serving role.

With regard to the matter of public image, I am against any artificial means to stimulate this. In my opinion, engineering is second to none in its contribution to the welfare of mankind. As it is sufficient for me to believe this to be true, I do not really care who else knows it. We should feel that when the time comes, we will meet our Maker with a feeling of modest contentment, without meanwhile having to stimulate our egos by trying to compete for public attention with those professions that have a much closer contact with the general public.

Yours very truly,

W. P. Steadman, P.Eng.

"FADS, CLICHÉS, AND SLANG" AND DRIVEL

Dear Editor:

I enjoyed the "filler" article on pp. 19-21 of the February '80 Bulletin, but must take issue with some of the figures quoted in Paul Shane's introductory paragraph.

"Winston Churchill, with his notable abilities as a writer and orator, is said to have possessed

nate ones having Saturday afternoon off. Some employees got two weeks' holidays a year, and a strike was what happened to a match. Prisoners didn't riot in jails, perhaps because it was warmer in jail than riding the rods in a cold box car.

There were no electric stoves or power saws, no air conditioning or paved roads, and when you did reunite car with battery come Spring you might have to crank the car to get it into operation. It had a running board and maybe a rumble seat but no ash tray or radio.

Movies were twenty-five cents, a dime for kids, and patrons could collect a whole set of dishes if they went often enough. Street cars clanged and rattled by, and trains had their own special odour. The cars with wicker seats smelled quite differently from the ones with dark green plush upholstery. A real traveller was someone who had been away as far as a neighboring province.

There was no electricity in the farmhouse and no combine in the field. There were threshing gangs at harvest time, men who were glad to work from dawn until dusk for room and board and a dollar a day. The farm wife fed these gangs, several meals a day, baking her bread and pies in a wood stove that heated up an already hot kitchen in late August.

The highlights of the social year for children were the Sunday School picnic with races and prizes, and the Christmas concert with a bag of hard candy from Santa Claus. There were no community clubs, no organized games in our out of boxes. Kids played ball on the school grounds or the corner lot, they played kick the can, wiggle, sticks, hoist the sails, take three giant steps, aunty aunty aye over, dodgeball, statues, went on hikes and scavenger hunts. There was no fancy equipment in the schools, no shops, no home economics. The basement was usually the gymnasium. There was order in the classroom, and the strap reposed in the

teacher's drawer to ensure it. A strapping at school was generally followed by another one at home.

There were no drugs or alcohol around so when the youngsters got high spirits and wanted to kick over the traces they snatched a few crabapples or moved a quarantine sign from one house to another, or they took the 'Ye Must Be Born Again' plaque from in front of the house of the fundamentalist family and put it beside the undertaking parlour. If they lived in the country they shoved over a few outhouses.

It was not a disgrace to be out of work, but it was a disgrace not to try to find work. People were embarrassed to take hand-outs, even when they were destitute. Each man carried his own burden to the best of his ability, and he helped those who couldn't. There was self-respect and mutual respect.

Governments at various levels did what people could not possibly do for themselves, and that was almost the total extent of their involvement. Few wanted the government to do anything for them other than build roads, collect garbage, deliver the mail, erect street lights. Nothing personal, thank you very much.

In the days before self-service, there was service. There were eleven mail deliveries a week to the home, two from Monday to Friday and one on Saturday. A telephone call to the butcher in the morning would result in choice cuts being delivered in time for dinner. When the housewife went into the grocery store she told the grocer what she wanted and he darted around the store gathering it up. A long pole with a hook on the end of it sent the corn flakes box toppling from its lofty perch into the grocer's hands. There was no gathering up goods and searching for a cashier. The clerk brought the goods to the shopper and handled the cash. Anything the shopper didn't want to carry was delivered, usually that same day. Clerks, bus drivers, bankers, lawyers were polite and

cordial. One complaint could cost a person his job.

There was no need to know what your 'sign' was in those days in order to determine whether to go out the door or not — if you wanted to survive you went out. As to the future, to weight watching and movie stars, if one was concerned about them, all that was necessary was to go down town to the five and ten, put a penny in the slot on the scales and out would come a card with a picture of Clara Bow, an arrow indicating the weight was .78 and a warning, "Proceed with caution today. Do not make any serious decisions. A surprise awaits you."

"What I can't see," said the seven year old, "is what was so good about the good old days."

The good part of the good old days re-

volved around the things that didn't have a dollar price tag on them, like courtesy and service, the fun to be had on the corner lots where all the children had to contribute was their own fertile imagination. In the schools, the churches, the community, there was a sense of belonging to something that had values.

No one who drives a car with an automatic transmission and a block heater, who pushes buttons to start a washer-dryer, who heats a meal in thirty seconds in a microwave oven, who travels to Europe for a month's vacation and works thirty-five hours a week in an air-conditioned office, wants to go back to the 'good old days.' No farmer wants to trade his combine for a threshing machine, nor his electricity for oil lamps and a wood stove. It's not the things we want to go back to, it's the attitudes. — S.J.A.



Dan Card examines his Premier's Design Award, while Edward Trost, Premier Lyon and Walter Saltzberg look on.

FROM THE ARCHIVES



Representing the West

Once again, the engineering profession must come to the rescue of the country. — How to have the West represented in Parliament? The Bulletin conducted a poll with an accuracy of ± 1 ". The results were then put in a computer, adding of course the Quebec, Toronto and CBC bias factors. The feedback (barf) came out with the following alternatives:

- 1) Create a diversion
- 2) Give all Liberal bag men \$40,000 a year jobs plus an Air Canada pass plus indexed pensions plus no attendance rules
- 3) Parachute a western Liberal into Quebec.

The alternatives were then rated by two independent observers using the modified Delphi process. The results showed that on a scale of 1 to 10 a Diversion had a 9 out of 10 rating and was the route to go.

The computer then provided a list of diversions. The first was to take hostages and parade around a public building. The question then became "Who would care?" and "Who would parade?" The answer was no one. This diversion was cut off at the source.

The second diversion was to blow up an energy source and cause a panic in the streets. But this has already been done in Alberta with a gas compressor station. As an explosion it was highly successful, as a public diversion it was a dud.

The third diversion proposed by the computer was to have a love-in for Quebec Liberal Cabinet Ministers. Mr. Lougheed vetoed that proposal because he said he could not afford it.

Having exhausted the various diversion routes, the Bulletin then used another CBC ploy — get a man on the street consensus by interviewing two people. This produced conclusive and definite answers.

The first interviewee was an elderly

gentleman having trouble with his nose who said "What's new, I've never been represented before, why start now?!"

The second interviewee was a young miss holding her mother's hand and looking uncomfortable who said "I wanna go wee wee."

So there you have a scientific study of alternatives and the conclusion provided by the young miss. Her suggestion provided an alternative that was a diversion, it was easily understood by the population — even the Liberals — in both languages and was inexpensive!

Professional Engineers vs. Power Engineers

By D. J. Frost, P.Eng.

At a recent council meeting the Association's brief to the Department of Labour concerning proposed changes to Regulation 287/76 under the Power Engineers' Act (W.P.C.) was discussed.

Being present at their meeting it appeared that the Association recognizes, due to recent technological advances and ever-increasing energy costs, that the Power Engineer's position is requiring a higher degree of engineering knowledge and application in order to improve and operate plants for optimum efficiency and safety.

The Association is suggesting that flexibility be permitted in the regulations in order to permit supervision and inspection of plants by Professional Engineers and others, as may be appropriate to the situation.

In view of the foregoing there is an obvious need for Professional Engineers in the field of Power Engineering, therefore the Association should act more positively in this, by changing the Engineering Profession Act giving professional accreditation to "qualified" Power Engineers,

further encouraging Graduate and Professional Engineers to work fully in the field of Power Engineering, as is the case in many European countries.

If the Association were to change the Act, the quality of Power Engineers and Power Engineering would be enhanced by an influx of Professional and Graduate Engineers into the field of Power Engineering; no longer would the Association be on the outside looking in, as in the present situation.

WILLIAM WALKDEN, P.ENG.

William Walkden, APEM's oldest member, will be 95 this June, and has been an Association member since 1920. To mark these milestones, Mr. Walkden granted the Bulletin an interview at 91 Ferndale Avenue in Norwood, where the family has resided for more than 60 years. A tall spare man with thinning hair, Mr. Walkden's hearing, eyesight, and facility with speech (with a trace of English accent) show little evidence of the passage of nearly a century.

William Walkden was born June 11, 1885, near Alderley Edge, Cheshire, England. He described his family, who had farmed the land continuously since the Elizabethan era, as "yeomen". He spoke earnestly of how his parents strove, successfully, to earn the trust of others; for him, too, trustworthiness has been a paramount goal.

A County Council scholarship gained him admission, following primary education, to Stockport Technical School near Manchester, from which he graduated with top honours. Indentured to Peter Peiree & Son, architects and land surveyors, during his engineering studies at the Manchester School of Technology, he thus became the first of the Walkdens to earn a living other than by farming.

In August, 1907, Mr. Walkden emi-

grated to Canada and to Winnipeg, and that same year found employment as a draftsman in the Engineering Department of the Canadian Northern Railway. Two years later, he was transferred to the Bridge Department. Meanwhile, he continued his engineering studies through the Extension Division of the University of Wisconsin, and taught evening classes in practical mathematics at Kelvin High School.

In June of 1912, in Montreal, Mr. Walkden married long-time sweetheart Alice Richardson, also of Alderley Edge. The marriage lasted nearly 61 years, and Mrs. Walkden is sorely missed. The Walkden's two sons, Charles and Raymond, are now also retired. A grandson, Morley, a 1967 U. of M. graduate in Mechanical Engineering, works with Aramco in Houston, Texas.

Mr. Walkden became Acting Bridge Engineer in 1917, and then, within two years, Bridge Engineer, Canadian National Railways, Western Region, following amalgamation of Canadian Northern with National Continental and Intercolonial Railways. A year later, when the Grand Trunk Pacific also became part of the CNR system, CN's vast Western Region extended from the Lakehead to Vancouver Island.

After nearly 40 years with the CNR, Mr. Walkden retired in 1945, only to return to work in 1949 with the City of Winnipeg Engineering Department under W. D. Hurst and A. J. Taunton. Mr. Walkden spent the next nine years working with J. B. Striowski on such problems as the 1950 flood, the design of the Midtown and Disraeli Bridges, and the deteriorating condition of Winnipeg's old "gingerbread" City Hall. Despite such problems, Mr. Walkden describes his association with the City's Engineering Department as "completely happy throughout". During this period, Mr. Walkden even found time to carry out, for

CNR Chief Engineer Major J. L. Charles, a special assignment: site selection and design supervision of a bridge to span the turbulent Skeena River for a new branch line into Kitimat, B.C.

A life member of E.I.C. and of the American Railway Engineering Association, Mr. Walkden has not neglected sports and community affairs. He played basketball in YMCA competitions, cricket with St. George's Cricket Club, and golf at the Norwood and Southwood Clubs, and is a full (though now inactive) member, and patron, of the Norwood Lawn Bowling Club. He is a life member of Norwood Masonic Lodge No. 119 G.R.M., a member of the Manitoba Historical Society, and an honorary member and former Chairman of the Norwood Community Scholarship Foundation Board. A member of Norwood United Church, he served the choir as a baritone for 21 years and as President. Since 1959, he has been in charge of the Church's carillon.

The Bulletin thanks Mr. William Walkden for the opportunity to salute the long and distinguished career of our oldest member. — P.S.



Spring is here! Time to put your furs in storage.

Use Your Seal!

The Practice and Ethics committee has recommended that members should be reminded that the Act requires each Professional Engineer to seal estimates, specifications, reports, working drawings, plans and other documents issuing from his/her hand, and further that the Code of Ethics requires that the member use his seal on work that his training, ability and experience render him professionally competent to undertake. A member may seal drawings in a discipline that does not correspond with his/her degree, provided that he/she does not contravene the Code of Ethics regarding competence in this regard.

GOLF

MAY 26

ELMHURST

AT THE BALL

Attendance was down at the Oktoberfest in March Ball, but enthusiasm was not. Rudy Isaak carried the flag for the hierarchy until president Walter Saltzberg arrived, in tuxedo, to add a bit of class. Walter and Joan and the tuxedo had first been to the Engineers' Grads Farewell where according to Walter, even the female students were decked out in tuxedos. Equality of the sexes is starting earlier and earlier.

Tourists who were on hand included the Carman trio of McKibbin, Tinkler and Robinson, Bryan Johnston from outer space returned to the fold after too long an absence, Cal Moon from Portage la Prairie and Blair McLenaghan who stopped off in between flights.

When President Saltzberg arrived the band struck up "Hail to the Chief". Doug Grimes refused to stand and genuflect or to sit and bow his head and maintains he will refuse any sort of obeisance until Walter pays off an outstanding debt. For a different reason Mabel Pratt refused to give Walter her hat, even when he pleaded on bended knee. Mabel and George came as untanned persons this year.

Terry Monastyrski won first prize for the Ukrainian polka. The other members of his group (Mitton, Berry, Tchir) were overheard to say they wished he would

limit his obstreperous antics to the dance floor. It was noted that Richard Johnson and Ray McQuade have gone in for social climbing and were sitting with the creme de la creme (Ben Rogers and Barry Rowley).

This year's special entertainment was a competition between the Dominion Bridge team, captained by Bob Stefanick and the Empire Iron Works team led by Vic Becker. The contest was to see which team could erect the highest glass tower. Our informant neglected to mention if the glasses were full or empty. The management did not have total confidence in either contender and confiscated all the materials.

Short takes: A person who wishes to remain anonymous wants to know who the good looking doll with Fred Kemp was. Norm Ulyatt did not need the services of the President to get home after the event. Craig Sommerville no longer stays all night. The Malmgren brothers attended as usual. Bob Morrison didn't say anything worth reporting. Or if he did Bryan Norrie, Doug Whalley and Edd Klassen missed it. If you weren't there you might drop the Social Committee a line to explain why. It's difficult to plan ahead when numbers are dropping. — SW-AJS



Energy Efficient Vehicle designed and built by the Energy Efficient Vehicle Engineering Team (University of Manitoba engineering students) that won first place in the overall standings and secondary awards for efficiency and 'best in the diesel class.'

The Canadian Direction

Oliver Wendell Holmes said "The greatest thing in this world is not so much where we stand, as in what direction we are moving." So our enquiring reporter decided to find out in what direction Canada was moving. We interviewed the Prime Minister first. He was quite clear that the direction was left of centre when you were facing east, with due considerations for highly significant characteristics that were of importance to the nation such as referenda, need for western Liberal senators and controlling oil.

Marc Lalonde was much more blunt. He said he would interpret the meaning of "peace, order and good government" in the BNA Act to mean as it had always meant during the last 113 years — that natural resources will flow south and east and manufactured goods marked up 20% will flow west. That is the direction we shall continue to go.

One little guy huddled in the doorway keeping warm said he was an old age pensioner and thought that with government spending and inflation our direction was bankruptcy. He was already there but would try to make room for the influx of all non-working people in the near future.

A Newfoundlander hitched up his pants and said "We got oil and we got fish and we got a good people so let them mainlanders go to hell with their fancy words and funny accents. Our direction is right here."

A bank executive on Bay Street was too busy to talk because his chauffeur was double-parked but did have time to say "The financial community in Canada has always given the direction for Canada to follow. It has done so with great skill, with no outside interference or inquiry and with great 'bottom line' results. Canada's direction is to the centre — to Montreal for politics and Toronto for everything else."

Peter Lougheed's reply to that was "Up

your thumb."

The Bulletin hopes that this survey's valuable research will be useful to the Liberal senators from the West who will do so much to point the direction that the people want to go.

On Government

All government — indeed every human benefit and enjoyment, every virtue and every prudent act — is founded on compromise and barter. — Edmund Burke.

Government is a trust, and the officers of the government are trustees; and both the trust and the trustees are created for the benefit of the people. — Henry Clay.

The less government we have, the better. — Emerson.

There is bound to be a certain amount of trouble running any country. If you are President the trouble happens to you, but if you are a tyrant you can arrange things so that most of the trouble happens to other people. — Marquis.

Those states are likely to be well administered in which the middle class is large, and larger if possible than both the other classes, or at any rate than either singly: for the addition of the middle class turns the scale and prevents either of the extremes from being dominant. — Aristotle.

The office of government is not to confer happiness, but to give men opportunity to work out happiness for themselves. — Channing.

Employment of Engineers

Section 19 of the Engineering Profession Act reads as follows:

Employment of engineers.

19 Except as herein otherwise provided, no person shall knowingly employ as a professional engineer, or for any work that requires the services of a professional engineer, any person who is not either a member of the association or the holder of a licence issued under this Act.

Design Winners

Our congratulations to the winners in the recent design competition for the Premier's Awards for Design Excellence. D. C. Card won the Premier's Award for Design Excellence, Awards of Merit were won by S. L. Baldwin and D. Kakoske. Engineering Design finalists were:

Smelter Bail Beam for Inco Metals, Bryan B. Clements P.Eng. Designer. Potato processing plant for McCain Foods, D. W. Charleson P.Eng. Designer. 9494-4 Fixed Disc Drive for Burroughs Business Machines, D. Card P.Eng. Designer. Communications Alarm Panel for Manitoba Hydro, R. Girulski P.Eng. Designer. Sequence of Events Annunciator for Manitoba Hydro, D. Kakoske P.Eng. Designer. Muffler for Percussive Pneumatic Machines for Inco Metals, S. Baldwin P.Eng. Designer. Fort Garry Bridge for City of Winnipeg, D. Mills P.Eng. Designer. Bi-Daily Hemodialysis Pump for Health Sciences Centre, C. A. Crawford P.Eng. Designer.

Judges were G. Schultz and J. Shewchuk of this Association and C. Lajeunesse of C.C.P.E. W. P. Wolfe was co-ordinator, C. R. McBain and W. G. Rooke made up the Screening Committee and President Walter Saltzberg was on hand to assist Premier Lyon with the presentations on Awards Night.

Engineering Graduates Enrolled

R. D. Bergen, S. L. Bergen, H. C. De Neeve, K. T. J. Raban, B. J. Nelson, A. N. Schott, J. K. Stafford, J. E. Talling, R. L. Tough, J. J. Plant, B. A. deCarmo Cerqueira, G. S. Glowa, Md. G. Kibria, K. S. A. Tse, R. Wegner, G. J. Fempel, K. A. Kowalchuk, Hock-Chuan Tay.

Licences Issued

H. Ahmad (Alta.), D. M. Bissett (Que.), L. L. Earley (Que.), N. M. Engelman (Que.), L. H. Mensforth (Ont.), M. F. F. Murji (Alta.), G. W. Peacock (Sask.), T. W. Cochrane (Sask.), P. C. Ellard (Ont.), B. Gray (Ont.), S. W. Hagemoen (B.C.), W. H. King (Alta.), K. G. Koo (Ont.), D. Olynyk (Alta.), J. A. Patra (Alta.), A. M. Banerjee (Ont.), R. J. Briggs (Sask.), R. P. Mah (Sask.), D. V. Tomkins (Sask.), A. D. Williams (Alta.), H. Balodis (Ont.), H. G. Berger (Ont.), J. I. Daniels (Sask.), N. L. Leipziger (Ont.), B. J. Lukes (Ont.), C. D. MacPhedran (Sask.), J. H. Nantel (Ont.), H. J. Neumann (B.C.), I. Samadi (Ont.), R. W. Savage (Ont.), D. J. Whicker (Alta.), R. J. Genereux (Sask.).

New Members

J. W. McKay, Fu-hung Hsieh, J. B. Milne, D. A. Zeeuwen, P. A. A. R. Beach, R. R. Hochstein, A. C. King, A. P. Kuc, E. S. S. Lee, R. J. Lewak, F. D. Lotz, C. C. Macey, A. H. Martens, W. J. Muzylowski, E. Sagalovich, D. R. Stevens, M. Szeto, F. R. Talbot, N. Y. Y. Tam, V. J. Thielmann, R. T. Johnston, P. C. Varshney, Ruey-Yau Wu, J. H. Gasper, W. C. Brownlee, R. J. Burnside, G. S. Martin, J. A. McIntosh, N. P. Siemens, J. P. Wild, D. B. Armstrong, K. E. Meagher, J. D. Pue-Gilchrist, T. Sivakumaran, V. J. Tanner, G. C. Valaitis, M. L. Noona, R. M. Pastor, R. G. Quirk, A. R. Rege, J. Frandsen, A. E. Kramer, P. R. McDonald, R. A. Manastersky, B. R. St. Amant, D. N. A. Talbot, P. B. Winslow, A. Wexler, W. J. Borlase, D. R. Hnatko, H. E. Rosinger, L. Stocco.