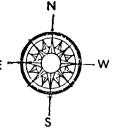
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The Association of Provincial Land Surveyors of Nova Scotia Incorporated

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MINUTES

Meeting of the Council and the Legislation Committee held in the Board Room on the Seventh Floor of the Provincial Building, Halifax, N. S.

Monday, May 26th, 1958

The meeting was called to order at 2:45 p. m. by the President, Spencer Ball, Those present ... Halifax, N. S. President Spencer Ball . Vice President Herbert Martell Sydney River, Cape Breton, Co., N. S. W. S. Crooker ... Port Wallis, Halifax Co., N. S. R. E. Dickie Brooklyn, Queens Co., N. S. Donald Wagstaff ... Brooklyn, Queens Co., N. S. Sydney, N. S. Eldon Adams · J. Ronald Chisholm Antigonish, N. S. W. E. Servant Halifax, N. S. Donald Eldridge Truro, N. S. Halifax, N. S. J. R. March. Major J. A. H. Church Lawrencetown, Anna. Co., N. S. Freeman Tupper Halifax, N. S.

H. B. Robertson, Secretary Halifax, N. S. President Ball opened the meeting with a motion that the minutes of the previous meeting be adopted as circulated.

Seconded by Major Church. Motion carried.

Mr. Adams stated that he would like to ask a few questions relating to the minutes of the previous meeting, and that he was under the impression that the Professional Engineers were not in favour of our Bill being passed.

Mr. Eloridge also stated that he had been told that the Engineers were not in favour of our Bill.

Mr. Adams said that he agreed with the statement made by Mr. March at the previous meeting, that there should be no changes made to the Bill, and that the Association should have the power to set it's own schedule of fees and the section granting such powers to the Association should be left in our Bill when it is again presented to the Legislature during the 1959 session.

In reply to Mr. Adams, President Ball then read a letter Mr. Hicks, M.L.A. had written to Major Church in reply to a letter from Major Church. In this letter Mr. Hicks stated that our Bill had been presented too late in the session and that certain sections of the Bill conflicted with the recognized work of the Engineering Profession.

President Ball explained that the draft of our Bill had been handed to Mr. Levy in August 1957. Mr. Levy had then requested Mr. Muggah to prepare the revisions to the Provincial Land Surveyors Act, Chapter 230, Revised Statutes of 1954, and that later Mr. Freeman Tupper, who was at that time the President of the Association, Mr. J. R. March, Mr. H. B. Robertson, Secretary-Treasurer, and Mr. Ball had met with Mr. Muggah, and later with Mr. Levy to approve the revisions to the present Act.

Mr. Adams said that he feels that the Bill had been presented in plenty of time and asked the members of the Council if they considered Land Surveying to be a branch of Civil Engineering. He told the Council that Land Surveying is reconized in the Courts as a profession of its own.

President Ball reminded Mr. Adams that in the future we are going to be interested in much more than establishing boundary lines.

Mr. Adams asked the members of the Council if they considered that the opposition to our Bill may have come from the Engineering Profession.

Mr. Eldridge said that he felt that there had been lobbying against our Bill by some members of the Engineering Profession.

Mr. March said that he had talked with Mr. Kline, the Secretary of the Nova Scotia Branch of the Engineering Institute over the telephone shortly after our Bill had been introduced in the

Legislature, and that he had explained the reasons why we needed the Bill, and that he had seemed to be satisfied with what we are trying to do. Mr. March said that he had also sent Mr. Kline a copy of our Bill.

Mr. March said that now is the time for publicity, and that a good start would be by joining the Atlantic Provinces Economic Council by making our President a member of the Council.

Mr. March then made the motion that the President of the Association of Provincial Land Surveyors of Nova Scotia be made a member of the Atlantic Provinces Economic Council. This to be repeated each year with each new President.

Seconded by Mr. R. E. Dickie.

Mr. Eldridge asked what benefits the Association would derive from this.

Mr. March said that by being a member of A. P. E. C. our Association would be in contact with the economic progress of the Maritimes.

Mr. Eldridge asked how much money this would involve.

President Ball said that he thought it would amount to about \$25.00 a year.

Mr. March's motion was then passed.

President Ball then advised the members of the Council that he had contacted Mr. W. J. Mc-Innes of Wickwire, McInnes and Wilson in cenection with our Bill, and that he had asked Mr. McInnes if he would be willing to represent us when our Bill is introduced during the 1959 session of the Provincial Legislature. Mr. McInnes had informed President Ball he was quite interested in our Bill, and that he would be pleased to represent us.

President Ball said that he had asked Mr. McInnes if he could give an estimate of what it may cost us for legal council while our Bill is in the Legislature, but that Mr. McInnes had informed him that it was not possible for him to give an estimate at this time, but pointed out that the most he has charged to put a Bill through the Legislature was \$475.00, and that had included the complete draft of the Bill. In our case the Bill has been drafted by Mr. Muggah and wll not need to be re-drafted.

All present were of the opionion that we should obtain the services of Mr. McInnes.

Major Church made the suggestion that the Secretary write to every Survey Association in Canada and ask them for their schedule of rates for surveying services, and that this information be turned over to Mr. McInnes so that he will understand why we require the power to set our own fees for services.

Mr. March said that he was of the opinion that the Association has the most of this information already.

President Ball then brought up the report on the Publici.y Committee, stating that the time has now come for us to resort to propaganda.

Mr. Adams said that it would be a good idea

if a report of our Council Meetings could be reported in the press the same as our Annual Meetings.

Mr. Eldridge asked if it was Mr. Adams intention that we have a reporter present at our Council Meetings.

Mr. Adams said that it might be arranged.

Mr. Ball said that he would look into the matter.

Mr. Adams asked if it would be in order if Mr. Kendall sat in at our meeting.

Mr. Dickie said that he felt that any member had the right to set in at the Council Meetings, but that they could have no say in the business of the meeting.

Mr. Adams then went out to get Mr. Kendall and invite him to the meeting.

Major Church made the motion that we republish our Briefs which were prepared last year, making whatever additions that are necessary, and that copies be mailed to every member of the Association and to every member of the Legislative Assembly, well in advance of the opening of the 1959 session of the Legislature.

Seconded by Mr. Eldridge. Motion carried.

Mr. Servant asked what has been done in the case of illegal surveying in the Amherst area.

Mr. Adams then brought up the matter of a Mr. Fred Compton, a Professional Engineer of Sydney, who does not hold a Provincial Land Surveyor's Certificate, but has been carrying out Land Surveying in the Sydney Area.

Mr. Adams informed the Council that Mr. Compton had made arrangements with a registered Provincial Land Surveyor to sign his plans for him in case there should be any trouble, and that this man had agreed to sign the plans although he had not supervised the work and had not been present on the ground at any time that the work was being done, but that this man had not actually signed the plans, and after being warned by Mr. Adams and some of the other Land Surveyors in the Sydney area of the serious trouble that he could get involved in if he did sign such plans of surveys that he had not actually supervised and inspected on the ground, he later decided that he would not sign the plans for Mr. Compton.

The secretary then read evidence that Mr. Compton had applied, and written, and passed the legal examination for a Certificate of Qualification as a Provincial Land Suveyor as required for graduate Civil Engineers but that the Certificate had been held up by the Board of Examiners for lack of actual experience in Land Surveying.

Mr. Adams informed the Council that Mr. Compton is employed by the Dominion Steel and Coal Company.

Mr. Adams suggested that the Association write Mr. Compton and inform him that he is surveying illegally, and that by doing this he may damage his chances of obtaining his Certificate at a later date.

Mr. Tupper asked if there is any way that we can get at the person who hires a man who is not a licensed Provincial Land Surveyor to do Survey work for him.

Mr. Martell said that he had met Mr. Compton and that he had impressed him as being a very competent surveyor. He said that Mr. Compton was being very careful in his sub-division work with regards to highway specifications and was taking into consideration the possibility of future sewer and water services in these sub-divisions, although at the present time this is not required because there is no planning board for the County of Cape Breton.

Mr. Martell said that he feels that if Mr. Comton could qualify for his P. L. S. that he would be

a very useful surveyor.

Mr. Adams stated that Mr. Compton has a good job and that he is taking work from men who are making their living from Land Surveying.

Major Church said that we have a Board of Examiners for Provincial Land Surveyors and they have turned this man down, and it is for them to decide if he has obtained the necessary qualifications, and that under the present Act, we in the Association have nothing to say in the matter.

President Ball said that Mr. Compton should not establish boundary lines. That he is allowed to do engineering work only, such as roads, sewers, ect., but until he is granted a certificate he should not do any land surveying.

President Ball said that we will have to publish a book on ethics and distribute it among the members of the Association.

Mr. March said that this Association has no authority to suggest to the Board of Examiners what should be done in the case of Mr. Compton.

Mr. Crooker said that it was his opinion that the Association should write the surveyor who had agreed to sign the work done by Mr. Compton and inform him of the seriousness of the case.

Mr. Adams said that this man had not signed, but that he had only agreed to sign if needed, and

had later decided that he would not sign.

Mr. Martell told the members of the Council that without a County Planning Board they are lost in the Cape Breton County Area.

President Ball then read a letter regarding Mr. W. P. Morrison. Mr. Morrison is now retired and is no longer active as a surveyor, and has asked to resign from the Association.

President Ball said that in the case of Mr. Morrison and a few others, that we should make

them life members of the Association.

Mr. March said that although he was in favour of President Balls suggestion, he doubted if we have the authority under our present by-laws to appoint life members of the Association.

It was the opinion of the Council that if we do not have this authority that it be taken up at the next Annual Meeting and our by-laws amended to allow the appointment of life members.

It was decided that Mr. Morrison be advised of our intention.

Mr. Adams then referred to the Annual Meeting and mentioned the Hon. L. D. Currie as possible speaker at our next Annual Meeting.

President Ball said that we would be discussing the Annual Meeting later in the meeting.

President Ball then read a letter from Mr. L. Fuller, an engineer with the Public Works Department who does not hold a Provincial Land Surveyors Certificate, but requested membership in the Association.

Mr. March said that he is of the opinion that Mr. Fuller is well Qualified, and suggested that he make application to the Board of Examiners for his Certificate of Qualification as a Provincial Land Surveyor.

Mr. Tupper said that he has always found Mr. Fuller's work to be of the highest quality.

President Ball said that he would refer the matter to the Board of Examiners.

The case of a complaint by the British American Oil Company against Mr. Eldon Adams was then brought up, and President Ball read a letter from Mr. K. G. Putnam of the British American Oil Company, and another letter from Mr. Adams, on the same matter.

Mr. Adams said that he did not have his file on this case with him and offered to send it in, and suggested that a special committee be appointed to study the matter.

Mr. Chisholm then made a motion that the Secretary call a meeting of all members of the Council in the Halifax area and study this case and report back to the full Council at the next meeting.

Seconded by Mr. Dickie. Motion carried.

President Ball then brought up the matter of the Eighth Annual Meeting to be held in the Lord Nelson Hotel on October 27th and 28th and asked the secretary to read a report on what has been done since the last meeting of the Council.

The Secretary stated that he has written the following Exhibitors: The Hughes Owens Co. Ltd., Halifax, N. S.; Eastward Industries Ltd., Halifax, N. S.; Garnett Scientific Sales, Halifax, N. S.; Norman Wade Co., Ltd., Saint John, N. B.; Kelvin-Hughes, Halifax, N. S.; Tellurometer Canada Ltd., Ottawa, Ontario; Instrument (1951) Limited, Montreal, P. Q.

To date we have confirmation from the following that they wish to Exhibit at our Meeting:

The Hughes Owens Co., Ltd., Halifax, N. S.; Garnet Scientific Sales, Halifax, N. S.; Norman Wade Co., Ltd., Saint John, N. B.; Kelvin-Hughes, Halifax, N. S.; Tellurometer Canada Limited, Ottawa, Ontario.

The Secretary then read a letter from Tellurometer Canada Limited stating that they would also like to put on a field demonstration.

Mr. March said that he had written Mr. S. G. Gamble, Chief Topgraphical Engineer, Topographic

Survey, Department of Mines and Technical Surveys, and President of the Canadian Institute of Surveying and asked him if he would present a paper at our Annual Meeting, but he has not yet received a reply.

Mr. Adams again mentioned the possibility of obtaining Hon, L. D. Currie to speak at our Annual Meeting.

Mr. Adams then brought up the matter of inviting our wives to attend the Annual Banquet.

The majority of the Council felt that this would be an excellent idea if it could be worked

The Secretary said that Atlantic Aviation are also interested and may put on an exhibit of Aerial Photography.

Mr. Adams stated that he noticed that most of the Members in the Halifax area do not attend the Annual Meetings, and said that something should be done to make these Members more active in the affairs of the Association.

Major Church informed the Council that he had been to see Mr. Muggah of the Attorney Generals Department, and Mr. Muggah had agreed to make up a list of all the Acts passed in the Province of Nova Scotia that a Provincial Land Surveyor should be familiar with. He said that Mr. Muggah had told him that there are at least 10 to 12 Acts.

President Ball then informed the Council that if there were no further business that a motion to adjourn would be in order.

Mr. Martell moved that the meeting adjourn. Seconded by Walter Servant. Motion carried.

The Meeting adjourned at 5 P. M.

H. B. Robertson, P. L. S., Secretary-Treasurer

MINUTES

Meeting of the Council and the Legislation Committee held in the Board Room, on the Seventh Floor of the Provincial Building in Halifax, N. S.

Monday, July 14th, 1958

The meeting was called to order at 2:30 P. M. by President, Spencer Ball. Those present were: President Spencer Ball, Halifax, N. S. E. O. Temple Piers, Halifax, N. S. Donald Wagstaff, Brooklyn, Queens Co., N. S. R. E. Dickie, Brooklyn, Queens Co., N. S. J. Ronald Chisholm, Antigonish, N. S.

Major J. A. H. Church, Lawrencetown, Anna., Co., N. S.

J. E. R. March, Halifax, N. S. Errol B. Hebb, Bridgewater, Lun. Co., N. S. Donald Eldridge, Truro, N. S. Henbert Martell, Sydney River, N. S. Walter Servant, Halifax, N. S. H. B. Robertson, Secretary-Treasurer, Halifax,

N. S. President Ball asked for the reading of the

minutes of the last meeting.

The Secretary said that copies of the minutes of the last meeting had been sent to all members of the Council and the Legislation Committee, and asked that the minutes be accepted as written.

Mr. March made the motion that the minutes be accepted as written. Seconded by Mr. Tupper. Motion carried.

The Secretary then read a brief report on the finances of the Association stating that we now have a balance of \$482.51 to our credit.

President Ball asked for any business arising out of the minutes.

President Ball then proceeded to give an account of our Bill 119, 1958. He told the members that he was very surprised that our Bill had been turned down. He said that he had called the Hon. R. A. Donahoe, Chairman of the Law Amendments Committee asking that he or other members of the Association be called in if there were any questions arising out of any part of our Bill. He explained that the Bill had passed the Law Amendments Committee with the Recommendations for only one or two minor amendments, but when the Bill came up in the Committee of the Whole House very strong objections to certain Sections of the Bill were brought up by several members of the Legislature.

President Ball then read from Hansard the proceedings in the House during the first reading of the Bill on April 18, 1958, the Second Reading on April 23, 1958, and during the Committee of the Whole House on May 2, 1958 at which time the Bill was turned down. He then read a letter from the Honourable R. A. Donahoe, Attorney General of Nova Scotia and Chairman of the Law Amendmen s Committee, describing the fate of our Bill 119, 1958 - that the Bill had been recommended to the House by the Law Amendmen's Committee with the recommendation that the power for the Association to set it's own fees for services be deleted. Apart from this the Bill was recommended as drafted. The Law Amendments Committee continued to sit considering other Bills and our Bill went into the Commit ee of the Whole House where, following a great deal of debate it was turned down.

Mr. Eldridge asked why it was necessary to call "flash" meetings at short notice since in such cases most out-of-town members are unable to attend. Mr. Eldridge refered to the meetings held prior to the introduction of our Bill in 1957 and again this year.

Major Church stated that because of the shortage of time after the first draft of the Bill was received that in order to get it presented at the 1958 session of the Legislature it was necessary to call a special meeting at short notice.

Mr. Eldridge asked to be put on record as being opposed to Section 9 Sub Section (1) clause (d) of our Bill 119, 1958 which states that a graduate in civil engineering, land surveying or forestry be required to sit the examinations.

Mr. Martell then asked President Ball to read Section 9.

President Ball than read Section 9 as requested by Mr. Martell.

Section 9 (1) The Board shall grant a certificate of qualification as a Provincial Land Surveyor to a person who:

(a) holds an appointment as a Deputy Crown Land Surveyor; or

(b) holds a commission as a Dominion Land Surveyor under the Canada Land Surveys Act. or

(c) has passed an examination under the direction of the Board in the subjects specified in the regulations and who has served three years apprenticeship of which at least twelve months has been in actual practice in the field as an apprentice to a Provincial Land Surveyor registered to practise as such; or

(d) holds a Bachelor's degree in civil engineering, land surveying or forestry from a college or university recognised by the Board and has served a total of twelve months apprenticeship, of which at least nine months has been in actual practice in the field as a apprentice to a Provincial Land Surveor entitled to practice as such and has passed the examinations prescribed by the Board; or

(e) has a diploma in land surveying from the Nova Scotia Land Survey Institute and has a period of apprenticeship with a Provincial Land Surveyor satisfactory to the Board and has passed the examinations prescribed by the Board.

Major Church stated that every other Province in Canada requires civil engineers to serve apprenticeship and pass exams.

Mr. Eldridge said that he agreed that civil engineers and forestry graduates should be required to serve apprentceship.

Mr. Plers said that the civil engineers graduating from the Nova Scotia Technical College are not getting enough survey training to be qualified surveyors.

President Ball asked the members for their opinions on what should be done and suggested that the legislation committee should take our Bill 119, 1958 along with the list of suggestions and make whatever changes we feel necessary. He also

suggested that we outline a programme of educa-

President Ball said that he feels that every Member of the Legislature should be approached.

Mr. March said that he feels that Bill 119, 1958 has been gone over very thoroughly and would suggest that we present it to the next session of the Legislature without change and that we employ the services of a solicitor.

Mr. Eldridge agreed with Mr. March, but that a better explaination should be given in the matter of civil engineers. He said that we should send a letter of explaination to the Engineering Institute.

Mr. Chisholm said that we have a great deal to do with regards to publicity, that in the minds of the most of the lawyers and others we are considered no more than a bunch of wood choppers. He said that we did not take advantage of one of our greatest opportunities for publicity, during the time that one of our members, Mr. J. R. March was President of the Canadian Institute of Surveying. This was a great honor to be given such an office in a Nation wide organization. Mr. Chisholm said that he did not see one item about this in the local press.

Mr. Chicholm made the motion that we appoint a Committee on Publicity for the General Public. Seconded by Walter Servant, Motion carried.

President Ball stated that most of the engineers do not realize that the proposed Act will be so far ahead of the present Act that the present surveying course for civil engineers would not come up to these standards.

For the benefit of some of the later arrivals President Ball read the proceedings of the Committee of the Whole House.

Mr. Dickie said that every effort should be made to have our Bill introduced early in the next session of the Legislature and suggested the appointment of an outside solicitor.

Mr. March stated that there was not one question asked in the Committee of the Whole House that could not be answered by the members of the Association.

President Ball asked if we should appoint another Legislation Committee.

Mr. Mar ell said that changes are not needed in the Bill 119, 1958.

Mr. March said that the Legislation Committee still exists, that it was appointed to carry out the comple ion of the passing of our Bill and incorporating the Association.

President Ball called for the appointment of a Publicity Committee of not more than five members and not less than three.

Mr. Martell said that he would like to name Mr. Eldon Adams to represent Cape on the Publicity Committee.

Mr. Servant said that he would name Spencer Ball for one.

Mr. Piers reminded the members that Presi-

dent Ball would be a member ex officio.

Mr. Tupper suggested Mr. Donald Eldridge.

Mr. Dickie suggested Mr. Eric Millard.

Mr. Piers suggested Mr. March.

President Ball asked if it should be one committee to cover education and Publicity.

President Ball said that we should nominate a member of the Association to speak to every member of the Legislation when the Publicity Committee has made up it's information.

Mr. Tupper said that he would speak to Mr. Peter Nicholson M. L. A. and report back to the

Committee.

Mr. Martell said that he would like to see a pamphlet explaining the aims of the Association and what they can do for the public.

Mr. Eldridge asked if we should appoint a lawyer at this time.

Major Church reminded the members that we may have to step up the fees of the Association to pay for a lawyer.

Mr. Eldridge said that regardless of the fees we are going to have to hire the services of a lawyer.

Major Church said that he only brought the matter up as a point to be carried in mind.

Mr. Servant made the motion that we engage the services of Mr. W. J. McInnes of Wickwire, McInnes and Wilson to handle this for us through the Legislature. Seconded by Donald Wagstaff. Motion carried.

Major Church asked if we could approach the lawyer with the idea that it may become a Government Bill.

President Ball then brought up the matter of the 1958 Annual Meeting to be held on the last Monday and Tuesday in October. He read the statement of the 1957 meeting and noted that the cost of that meeting was \$237.28 and that the receipts from the registration and Exhibitors fees were \$222.00 so that the actual cost to the Association for our 1957 Meeting was only \$15.28.

The Secretary then gave an estimate of what it is expected to cost for our 1958 Meeting and what we should expect from the Registration and Exhibitors fees.

Mr. Servant suggested that we draw up a floor plan and allot the space to each of the Exhibitors so as to avoid the confusion the night before the meeting.

President Ball said that we should draw up our guest list well in advance.

Mr. March made the motion that the Secretary proceed with the notifying of the Exhibitors. Seconded by Mr. Eldridge. Motion carried.

President Ball then called for a motion of adjournment.

Mr. Chisholm made the motion that the meeting adjourn. Seconded by Mr. Tupper. Motion carried.

The meeting adjourned at 4:45 P. M.

MEMBERSHIP LIST

HONORARY MEMBERS

- 31 March, S. Edgar, 24 Alexanderia Avenue, Bridgewater, N. S.
- 43 Milgate, Raymond J., 169 Henry Street, Halifax, N. S.
- 22 MacPherson, Dr. Hugh, St. Francis Xavier University, Antigonish, N. S.
- MEMBERS 61 Adams, Eldon, Bank of Nova Scotia Building,
- Sydney, N. S. 68 Ahern, Philip C., P. O. Box 981, Halifax, N. S.
- 74 Alexander, Brian R., Hantsport, N. S.
- 86 Amero, Roy C., 1318 Trenton Avenue, Ottawa, Ontario.
- 80 Amirault, Alvinie E., Upper West Pubnico, Yarmouth County, N. S.
- 48 Anderson, Henry M.,
- 60 Archibald, Charles L., Maritime Block, Amherst. N. S.
- 42 Archivald, Joseph F., 2 Faulkner Street, Dartmouth, N. S.
- 83 Arsenault, William A.,
- 200 Arscott, David D., 188 Princess Street, Saint John, New Brunswick.
- 47 Baker, James R.,
- 21 Ball, Spencer, 16 Pine Hill Drive, Halifax, N. S.
- 62 Ball, Walter L., 140 Hamilton Avenue, St. John's, Newfoundland.
- 178 Banks, A. T., P. O. Box 47, Kingston, N. S.
- 53 Barring on, Yorke C., P. O. Box 629, Sydney Mines, N. S.
- 108 Bates, George T., 28 South Street, Halifax, N.S.
- 119 Betts, Wallace H., 23 Vernon Street, Halifax, N. S.
- 175 Bill, G. Emerson, 105 George Street, Ottawa, Ontario.
- 146 Bird, Donald J., Provincial Planning Engineer, Department of Municipal Affairs, Halifax, N. S.
- 170 Blacke t, V. C., 97 McBeath Avenue, Moncton, N. B.
- 79 Bloomer, Basil L.,
- 66 Boehk, Earnest F., 309 Fuller Terrance, Halifax. N. S.
- 114 Boutilier, Lionel E., 200 Ness Ave., St. James, Winnipeg 12, Manitoba.
- 101 Boutilier, Peter G., P. O. Box 370, Yarmouth, N. S.
- 166 Boylan, Curtis M., New Ross, Lunenburg Co., N. S.
- 81 Boylan, Gerald B., P. O. Box 968, Fredericton, N. B.
- 76 Brown, John V., Topographical Survey, No. 8 Temporary Building, Ottawa, Ontario.
- 26 Burgess, R. H., 32 Queen Street, Truro, N. S.
- 85 Bushell, Norris L., Hazel Hill, Guysborough Co., N. S.
- 92 Byers, J. W., 39 Regent Street, Amherst, N. S.

- 196 Cameron, C. Irwin, Milton, Queens Co., N. S. 18 Cameron, Hoyes A., Bridgeville, Pictou Co., N. S.
- 70 Cameron, John B.,
- 192 Campbell, Charles A., Fatima Drive, Sydney River, C. B. Co., N. S.
- 135 Carey, Roger P., 122 Main St., Westphal, N. S. 174 Carlin, Cyril B., Hillsboro, Albert Co., N. B.
- 128 Chambers, William E., 322 Terrace Street, New Glasgow, N. S.
- 204 Chiasson, Ephrem, Hydrographic Survey, No. 8
- Temporary Building, Ottawa, Ontario. 46 Chisholm, A. F., 19 Ralph Devlin Drive, Hali-
- fax. N. S. 89 Chisholm, J. Ronald, 18 Fairview Street, An-
- tigonish, N. S. 33 Christie, R. T., P. O. Box 188, Windsor, N. S.
- 20 Church, James A. H., P. O. Box 58, Lawrencetown, Anna, Co., N. S.
- 230 Clark, Orrin A., 106 Sambro Road, Spryfield, N. S.
- 168 Collings, Allan F., 2427 Lockhart Ave., Montreal 16, P. Q.
- 203 Comeau, Ernest J., 105 Maryland, Winnipeg, Manitoba.
- 95 Comeau, John H., Room B-369, No. 8 Temporary Building, Ottawa, Ontario.
- 184 Comeau, Victor J., 105 George Street, Ottawa, Ontario.
- 106 Cossitt, Murray F., 428 Atlantic Street, Sydney, N. S.
- 182 Crandall, Allan C., 187 Medley Street, Fredericton, N. B.
- 183 Crandall, David W., Dorchester, N. B.
- 57 Crawley, Edmund A., R. R. No. 1, Chester, Lunenburg Co., N. S.
- 107 Creighton, C. S., 40 Walton Drive, Armdale, Halifax Co., N. S.
- 40 Creighton, G. W. I., 60 Norwood Street, Halifax, N. S.
- 126 Crichton, Gordon L., 145 Glen Avenue, Ottawa, Ontario.
- 213 Crooker, David L., South Brookfield, Queens Co., N. S.
- 37 Crooker, William S., Port Wallis, Halifax County, N. S.
- 32 Crowell, Seymour C., P. O. Box 279, Yarmouth, N. S. 163 Currie, H. D. G., Room 608, 151 Front Street,
- West, Toronto, Ontario,
- 122 Dechman, Arthur M., Bridgewater, N. S.
- 2 Dickie, Reginald E., P. O. Box 15, Brooklyn, Queens Co., N. S.
- 88 Doane, H. W. L., 4 Birchdale Avenue, Halifax, N. S.
- 220 Doig, J. F., Paradise, Annapolis County, N. S.
- 232 Donovan, R. J., P. O. Box 12, Antigonish, N. S. 136 Douglas, Charles M., P. O. Box 181, Hantsport,

N. S.

185 Drysdale, Evans G., Castries, St. Lucia, British West Indies.

- 99 Dumaresq, J. Philip, 77 Upper Water Street. Halifax, N. S.
- 191 Dyer, F. Bern, Fall River, Halifax Co., N. S. 65 Eldridge, Donald L., 209 Pleasant Street, Truro,
- N. S. 221 Eddy. Norman Roger. Forestry Division.
- George Eddy Co., Ltd., Truro, N. S. 212 Ferguson, Murdock A., St. Peters, Richmond
- County, N. S.
- 222 Feetham, Luke Robert, Windsor Junction, Halifax, N. S.
- 143 Fiske, John R., 36 Springdale Avenue, Armdale, N. S. 91 Fogarty, Rev. William P., St. Francis Xavier
- University, Antigonish, N. S. 59 Forbes, F. W., Windsor Apartments, New Glas-
- gow, N. S.
- 150 Foster, Edward S., Liverpool, N. S. 125 Foster, William H., 105 Vachon St., Apt. 22,
 - Ottawa, Ontario.
- 67 Fraser, John A., 19 Catherine Street, Glace Bay, N. S.
- 194 Garraway, Francis A., P. O. Box 592, Nassau, Bahamas, British West Indies.
- 180 Gaudet, Victor J., Room B-369, No. 8 Temporary Building, Ottawa, Ontario.
- 132 Gillmore, Duncan B., 9675 102A Avenue, Edmonton, Alberta.
- 210 Gopaul, Daniel R., P. O. Box 592, Nassau, Bahamas, British West Indies.
- 219 Gough, Robert E., 19 Purcells Cove Road, Armdale, N. S.
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The Land Surveyor From the Standpoint of an Employer of Land Surveyors and Engineers

By James L. Bell of James L. Bell and Company, Kansas City, Mo. and Denver, Colorado. Taken from the January — March 1958 issue of Surveying and Mapping a quarterly journal published under the auspices of the American Congress of Surveying and Mapping.

Appearing with this very distinguished group of four educators on this panel, it is probably fitting that at least one panel member be four times as unqualified to discuss this subject of education as are the other panel members; therefore, I appear here in the interest of "good balance."

I would not presume to be qualified to discuss the subject of education itself, but would make a few comments concerning this matter of education of surveyors, particularly education of land surveyors, and would make these comments from the standpoint of a professional land surveyor and

an employer of land surveyors.

In approaching this subject of education, I believe that it is first necessary to establish the need for education of land surveyors and to establish the fact that education for land surveyors is not now adequately being provided. It would seem to me that the best judges of the qualifications needed for the land surveying profession would be the experienced land surveyors themselves. Certainly the most outspoken and active critics of land surveying are "competing land surveyors." If you do not believe this, simply set a stake and watch until the next land surveyor comes along and checks it out. He will spend a lot of his own time being critical and sludying and measuring into that survey, whether it is any of his business or not. One time I wasted almost half a day trying to check what later proved to be a horseshoe peg.

Then, if the land surveyor's opinion of qualification is to be respected, I say to the educators of this country that many land surveyors do not feel that you are teaching enough of the "basic legal and practical information" in your surveying courses. We, as employers, cannot normally use your students or graduates for any immediate purpose in land surveying until they have had definite further experience and instruction. We find that the average student or engineering graduate had a good background in the instruments involved and in survey calculations, but that he has very little knowledge of legal descriptions, their interpretation, their construction, or their comparative meaning. We not only find that we are not able to deal with him immediately as an employee, but that we cannot respect the surveying student's or engineer's work as a competing land surveyor until such time as he has gained extensive experience and additional information. I mention these facts with no intention of being critical of the engineering profession or the educators of engineers but to bear out the point that there is a definite need for more thorough basic education in land surveying and that it is not now being provided. If it were being provided, then, as employers, our problems would be very, very simple. It is comparatively simple to hire an engineer, but it is almost impossible to employ a good land surveyor without training him in your own organizaton.

I have heard it stated in our Congress in years past that it is not worthwhile to train engineers as surveyors. I seriously question that statement. In the first place, many engineers prefer to enter fields where eventually they will do extensive surveying or will direct those people who are responsible for that surveying. In order to properly evaluate land surveying or direct it, I feel that they should know something more about the fundamental elements of the subject. It has been stated at our meetings that engineers could not afford to train as surveyors because of the limited income to surveyors. I would like to suggest that I am talking to a group of surveyors this moment whose average income is just as high or higher than their neighboring engineers who are in business for themselves and who run comparatively the same size organization, so I do not think the monetary

return is a matter of importance.

In terms of the need of this education, I suggest that the public itself is in need of it and deserves it. There are many trains of thought in this country which put the civil engineer in a position such that the public feels (and in many cases the engineers feel) that the engineer is really more qualified to do land surveying than is the land surveyor himself. This thinking is emphasized by the license boards in many States. In some States there are no provisions for licensing a land surveyor, but it is necessary to be licensed as a civil engineer in order to be respected as a land surveyor. In other States the civil engineer is automatically given a Land Surveyor's License after a number of years of any type of experience, and there are Stales in which there are more stringent restrictions which truly set the land surveyor apart from the engineer. I would suggest that colleges are not being fair to either the public or the engineering student unless they give him at least enough of the legal elements and practical side of land surveying to enable him to do the work and impress him with his need for obtaining more information through experience in a given locality before he offers his service as a land surveyor. I

would suggest specifically that this be done in two ways.

1. By simply expanding the present surveying curriculum to include the basic legal elements of land surveying, the intention being to impress the student with the fact that there are complex surveying problems. He must learn by local experience and contact.

2. A truly complete land surveying course should be offered in the first two years of college. This will be taken advantage of by those people who are interested particularly in practicing surveying and especially those who do not foresee the ability to finish college. Such a complete course would equip a two-year college man with the proper knowledge of instruments, the proper basic knowledge of legal descriptions and other problems peculiar to land surveying in such a manner that he could step out into the world and do a good job as a land surveyor.

I would suggest in closing that, if the colleges are unable, or do not feel that it is practical, to offer a more complete course in land surveying, then please, gentlemen, impress the student with the fact that he will need to get extensive experience in land surveying in a given area before he should offer his services as a land surveyor. For this, the land surveyors and the public will thank you.

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NOTICE

The Honourable Malcolm Leonard, Minister of Education, has approved in principle, on July 16,

- 1. Course for Land Surveyor's shall be of two years duration.
 - 2. The school year shall consist of two terms,
 - (a) From mid September to mid December.
 - (b) A Christmas Vacation from, Mid December to 1st week in January.
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Consequent on the Ministers Ruling the first term in 1958 will commence on Tuesday, September 16th, at 0900 hours in the Demonstration Building, Lawrencetown. The school being moved to the new Institute building when ready for occupation some time in October.

Enrollment this year will be limited to 20 Students in view of the overlap of the two classes. Details of the courses in Photogrammetry and Cartography will be published when details are arranged.

Yours sincerely,
James A. H. Church
Department of Education
Vocational Education Division
Nova Scotia Land Survey Institute

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