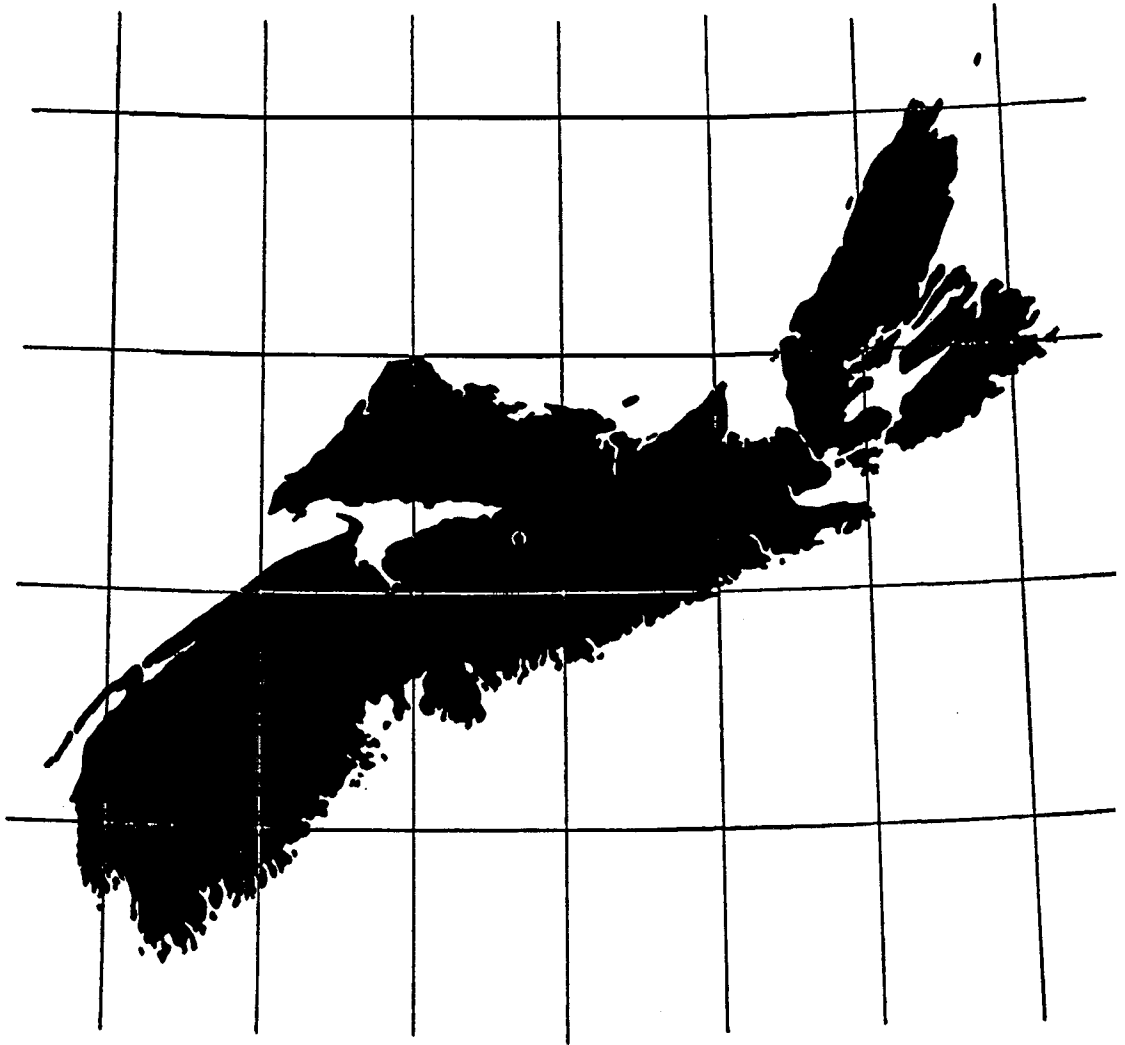


The NOVA SCOTIAN SURVEYOR



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The NOVA SCOTIAN SURVEYOR

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Number 31

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Conditions of The Association of Provincial Land Surveyors Of N.S.

BY JAMES A. H. CHURCH, P.L.S., REGISTRATION NO. 20

Every member attending the Annual Meeting of 1961, will be aware that the writer expressed the strongest disapproval of the conduct and policies of the Executive. A complimentary copy of Volume 5, Number 1 of the Ontario Land Surveyor, published by the Association of Ontario Land Surveyors has been received and affords some grounds upon which further expression of disapproval may be based. It can not be urged too strongly that the points raised in this, is one of vital importance to each of us, because our policies will bring us before the bar of Public opinion sooner or later. If the verdict of Public opinion be adverse our Association is finished.

Our chief duty to the public is to grant Certificates of Proficiency only to qualified men; that is the function of our Board of Examiners under the Direction of Council duly elected by the members of the Association, let us therefore have a look at Ontario and our Province in the matter of the report of the Board of Examiners on page 22 of the Ontario Land Surveyor as compared with the Report on Page 7 Volume II, Number 29 of the Nova Scotia Surveyor. There is no comparison possible — the one is specific in detail while the other is vague except in respect in quoting the number successful in each of two categories of examination.

Continuing the comparison by means of the Nova Scotia Financial Report —
There seems to exist two bases of comparison:

1. By cost per candidate examined
2. By cost per paper set

In dealing with the Ontario report the syllabus of examination shows 24 papers in the Finals and Intermediate and it has been assumed that only 12 supplementary papers were written.

In gross Expenditure \$330.00 for rental of a hall has been included though no such charge was incurred in Nova Scotia. In the gross Receipts \$171.00 has been included despite the fact that this is a receipt for Registration of Apprenticeship Agreement, again no equivalent charge in Nova Scotia.

The bases for comparison are:

ITEM	GROSS RECEIPTS AND EXPENDITURES			
	ONTARIO		NOVA SCOTIA	
	65	26	65	26
RECEIPTS	1631.00	1050.00	25.09	40.40
EXPENDITURES	1383.95	447.00	21.29	17.20
EXCESS RECEIPTS OVER EXPENDITURES	247.05	603.00	3.80	23.20

ITEM	BASIS OF PAPERS SET		PER PAPER SET	
	ONTARIO	NOVA SCOTIA	ONTARIO	NOVA SCOTIA
RECEIPTS	1631.00	1050.00	36	5
EXPENDITURES	1388.95	447.00	45.30	210.00
EXCESS RECEIPTS OVER EXPENDITURE	247.05	603.00	38.44	89.40
			6.86	120.60

TO SUMMARIZE THE ABOVE

GROSS				EXCESS
	Receipts	Expenditure	Excess	% of Expenditure
ONTARIO	1631.00	1383.95	247.05	17.8%
NOVA SCOTIA	1050.00	447.00	603.00	57.4%

Lest some of us forget what was said by the President at the time a motion was made from the floor of the Annual Meeting objecting to the Association financing itself by overcharging Candidates for Examinations to the extent of some 60%, it is quoted from memory, beginning of quote "proper charges for attendance of members of the Board of Examiners and travelling expenses were waived by the Board, in aggregate these charges would be in excess of the \$603 excess of Receipts over Expenses of Examination" end of quote.

Another tabulation of comparison between the two Provinces will serve to clarify the situation.

EXPENSES OF BOARD OF EXAMINERS

	GROSS		PER PAPER SET	
	Ontario 36 Papers	Nova Scotia 5 Papers	Ontario	Nova Scotia
Attendance at Board Meeting (7 Examiners)	56.00			
Chief Examiner	275.00			
Travelling Expense	35.00		10.19	
Approved in principle by President at Annual Meeting		603.00		120.60
TOTAL	366.00	603.00	10.19	120.60

It would appear somewhat fantastic that the Board of Examiners of a newly fledged Association should even contemplate so exorbitant a charge for these services as \$120.60 per paper as against \$10.19 for the Ontario Board of identical and more onerous services. Before that sum \$603.00 is put to the credit of the Association it behooves us to discuss and decide what the effect of financing ourselves at the expense of Candidates for examination will be in the view of the general public and whether such policy be ethical. We have quite a number of extra provincial observers and friends who would be sorry to see us fail.

Of course the whole imbroglio is the fine product of our chaotic conduct of the financial affairs of our Association. A considerable number of our reputed members are in arrears with their dues yet our major policies are referred to the meeting for vote and no effort is made to screen the vote so any member, delinquent in the matter of dues, is able to vote — in fact there has not been a legal vote taken at any general or special meeting since the inception of our Association.

The whole question of dues and classes of membership requires reconsideration of all members, as does the setting of Examination Fees especially in regard to the charges of the Board of Examiners and not at all in respect to the charges of the actual examiners.

The writer has no desire to attribute blame for our past indiscretions because every member is equally as much at fault as those in Executive Office. It was the duty of each of us to discuss the problems of starting our Association in a sensible manner but we have left the decision to a devoted few. The results of our neglect

have not been to our satisfaction therefore it would appear advisable that we form regional groups to discuss the vital problems and come to the next annual meeting determined to put our procedures and finances on a solid policy.

The selection of the Ontario Association was entirely fortuitous but the writer confesses to a sincere and somewhat envious admiration of the province's Intermediate Examination — no real comparison can be made of the Finals because they have so many legal papers (7) that we are not in the same class.

Notes Copied From An Old Daily Diary Verbatim

MONDAY 23rd JANUARY — Weather 14° above — Left Camp 8-30 A. M. with Laurent Galibois as guide. Chained 6 miles to Baie des Moutons through a stiff nor-east blizzard. Lunched at Tom Green's. The Minister Mr. Pye is at Ste. Augustine. Left Mutton Bay chaining 1 1/2 miles to Leadre Nichel's, an old miser who offered to rent us his stable to camp in. Declined with thanks. Chained over a 700 ft. morine today. Camped about 1/2 m. east of Harpagon's with very little shelter. Hardest day the men had as the bays were covered with salange, about a foot deep & the hills very slippery and steep added to this they didn't stop for lunch and only camped at 5.30. Night wind went down and weather became clear. Moonlight with beautiful northern lights.

TUESDAY 24th — Zero weather chained 3 miles to Tobactiere stopping at the Cure's house where we had our collation. Camped within 40 yds. of the Chapel. Visited the Robertson (3 families) in the afternoon. Wed'y. Thury. Friy. Saty. and Sunday spent at Tobactiere being entertained by the Robertsons and the two priests, but our ennui was removed principally by meeting with Mr. Rothera the schoolmaster here, a very jovial young Eng'man with a good baritone voice besides being a fine goal-tend in hockey). Mr. Fred Robertson is to accompany us as guide. We leave our chain here as the chief has decided to trust the charge from this place Eastward. On Wed'y. the mail courier arrived and I was, the happy recipient of 7 letters (the news altho' 3 months old being very acceptable.) We gave our extra provisions to 3 destitute N'fld. families who came here last autumn to hunt but were unsuccessful and consequently starving. Attended the Anglican Mission at 10.30 A. M.

SUNDAY — First attempt since departure. Weather during this spell varied from 22° below to 10° above with 3 stormy days in 5. One of the Priests, Mr. Beddard, is a very fine man, obliging and fond of amusement. Wrote 4 letters and left them with Sam. Robertson as the postillon may not pass by our camp. Fred Robertson is quite a genius and knows the coast thoroughly.

MONDAY 30th — Weather 11° below. Struck camp about 9 A. M. and left Robertson's about 10-30 being aided by Freddy with 7 dogs and old Joe Hebert (who is resting here) with four. Reached LacSalle about noon, lunching at Harry Gali-champs, then in the afternoon, as we had only accomplished 5 1/2 miles, the chief was not satisfied and the men had to portage through the worst hilly bush I ever saw, a long (Poplar Gulch) winding ascent of 1 1/2 miles — 7 miles today. My first day on Beaver Tail snowshoes, purchased from Fred Robertson. The Robertsons are very fine people, in fact the only refined people on the coast, outside of Harrington. Mrs. Henry Robertson is the most beautiful of the Labrador Women

Marine type) — No posts anywhere near here — unless about 5 miles inside around the lakes — Am very tired as I had to make portage 3 times and aid both men & dogs in order to be camped before dark. Beautiful day sunny & in a wooded country with islands all along the coast.

TUESDAY 31st — Beautiful clear morning 22° below zero traversed 4 small lakes with portages in between, lunching on the last of the lakes. Then over a very high hill from which we could see at our feet Baie de HaHa & a lovely view in the distance. To the east HaHa Bay, to the south the sea & adjacent islands, to the north hills & wooded valleys & to the west lakes & small woods — The men found the portages easier today. Expect to reach Jock McKinn tomorrow night at River Kecarpivei — Have made about 13 miles since leaving Tobactiere — “Gatling Gun” Howard’s Lobster factory is about opposite our present camp. — My large camera is out of gear (paper too wide) & consequently am missing some fine views.

WEDNESDAY 1st FEBRUARY — Weather 32° below, clear & beautiful made 9 miles around the bays & across country to McKinn’s house — No posts along our route but there must be some in the interior. After traversing HaHa Bay & HaHa River we crossed through Portage and Aux Carots to the Bay where we came across old McKinn & his 3 men chopping wood. They invited us to travel the remaining 2 miles by Cometique and we had a lovely ride. Camped alongside his house night clear and beautiful. Temperature 28° below.

THURSDAY 2nd — At 7 A. M. the tempo was down to 40° below and at 8 A. M. (36° below) we left camp, Mr. Perron and I going up the Kecarpivei River about one mile to find a narrow crossing for the line. The crossed thro a long bush portage (1/2 miles long) to a pond and then another 1/4 mile bush to a “lac salle” & from there across 6 or 7 beastly hill to the Bay where we ran across the men and had lunch. Then followed the Bays until we reached Charles Lapierre’s house where we were well received by Madame Lapierre who turned out to be a fine Irishwoman from Nfld. Her husband not being very well she chops her own wood, hauls water, scalps seals, shingles her house, is always jolly & always busy. Assuredly a typical Irisher. — Night 32° below zero & still beautiful and clear. If we can only get a fine day tomorrow we’ll reach St. Augustine early in the afternoon.

FRIDAY 3rd — 7 a. m. 30° below — left camp with men at 8.30 A. M. weather then being 26° below and with a cold north wind — Followed the Bay 3 Miles to Tucker’s house — Then took the Pocacho portage (which we found well beaten by Henry Robertson’s Cometique and Black’s) to the Pocacho River which we following right to the Ste. Augustine — reaching there at 2 P. M. . Visiting Madeau & Robin — Mr. Burgess, the H. B. Co. man here is at present deer hunting at St. Paul’s River — We expect the mail up tomorrow — Will wait here until Monday 6 inst.

SATURDAY 4th — Henry Robertson & the mail arrived at 7 last night — made a fine trip. Visited the Robins, Fiquets & others — Weather cloudy with snow in the afternoon.

SUNDAY 5th — All the people came to visit the camp including all the girls of the place — Misses Susan Robin, Josephine Leon (1/2 breed), Alice Driscoll, Virginie Driscoll, etc. etc. etc. Snowing nearly all day.

MONDAY 6th — Broke Camp this A. M., boarding at Jim Fiquets. The men left for home at noon, Mr. Perron having decided to go on my Cometique overland through the lakes and ponds, cutting for the bottom of the bays — Beau and I intended to leave by Cometique tomorrow A.M. with Fred Robertson for St. Paul’s River where we shall await Mr Perron’s return from the eastward. Saw two beautiful fox skins at Mr. Fiquets one especially good. Mr. Black afterwards purchasing it for \$130.00 cash.

EVENING — Attended a dance given in our honor at Mr. John Driscoll’s house where we were treated to Cotillions, Apandies, Cuts, Jigs and the French form of cushion dance, the last of which was very interesting as there were several pretty girls there, notably Miss Rosie Murray from 4 miles up the river. Dance broke up about 2 A. M.

TUESDAY 7th — Weather too stormy to leave for Ste. Paul’s River, so in the afternoon went up the river with Mr. Perron to measure the crossing — About 3

miles up from Robin's the two rivers north west and Ste. Augustine come together forming the Big St. Aug. We decided to cross the line there — There is a sandy island in the mouth of the norWest river, the westward channel being 300 ft. and the eastern 600 ft. The Ste. Augustine crossing is 900 ft. with high cliff and narrowest place in the whole river for over 20 miles up the people say — Came down the river with Frd Robertson on Cometique as he over-took us on his return from the Murray's house. Black & Burgess arrived today. Spent the evening playing cards at Burgess' house.

WEDNESDAY 8th — Left by Cometique at 9.30 A. M. with Freddy. At noon had reached Foxy Jack's house (Belvin's) 18 miles below a place called L'anse a Portage. Lunched there and started immediately for Old Fort which we expected would be our ultimate goal today. This proved to be the case as the roads were wretched & very tiring on the dogs as their footing was very poor. When darkness set in we were according to Fred's opinion about 8 or 9 miles from Old Fort. We had to take turns of running along side the Cometique to give the dogs a chance. Reached Old Fort between 7 and 8 o'clock, tired, hungry, thirty & sleepy, putting up at old Mr. Fiquet's for the night. Were very comfortable there, but there was always one child at least crying so that the atmosphere was anything but inviting.

THURSDAY 9th — Another storm with snow from the N.W. Hired Owen Chevalier with his Cometique to help Fred across to St. Paul's River — Left right after dinner the roads being frightful, reaching St. Paul's River about 3 P. M., putting up at Mr. Jack Fiquet's for the night. If Mr. Fiquet has room we will board here for about 2 weeks, till Mr. P. A. P. returns from the eastward.

FRIDAY 10th — Mr. Chevalier turned back on his tracks last night, being from 5-10 o'clock in covering 6 miles. A Young Nflder. who left here at 2 P. M. yesterday on snowshoes for Old Fort got lost & had to pass the night in the snow. He walked and jumped about the whole night long and returned here with both hands & wrists frozen stiff. It was a terrible night cold & with a frightful blizzard — one couldn't see 20 ft. in front of him — Mr. Jack Fiquet is a very jolly man & has a nice family of girls.

SATURDAY 11th — Was spent in becoming acquainted with the people in the River. The Protestant school presided over by Mr. Willis numbers about 12 pupils — The Catholic School (Miss McCarthy) numbers about 30. There are no really poor people at this place which numbers about 20 families. No man can be poor as to be in want of the necessaries of life, except the lazy.

SUNDAY 12th — Attended divine service in the morning with Mr. Fiquet — Mr. Willis is a 'passable' lay-reader. Mr. Perron reached here today, the portages & ponds being in better condition than we thought.

MONDAY & TUESDAY 13th & 14th — Were spent in making arrangements for our departure on Wednesday A. M.

WEDNESDAY 15th — Mr. Berron left with Mr. Jim Buckle for Chateau Boy and intermediate points. Mr. Fequet also started eastward on his usual fur trading expedition. Beau Chemin and I left for the interior deer country along with two dog teams, those of Chas. Goddard & Jack Griffin — We reached Dove Pond Cabin about 2:30 P. M. and decided to remain there over night (16 miles from St. P.)

THURSDAY 16 — Left Dove Pond Cabin & reached Prickett Pond Cabin at noon, having seen only two fresh tracks through the whole 30 miles of hill & Pond. Went for a little stroll on snow shoes but saw neither deer nor tracks.

FRIDAY & SATURDAY — Very stormy but spent some of the time on the hills. Missed one fine company of 22 deer by Griffin crossing their wind in his attempt at starting them. Plugged away at them at 900 yards, but it was too far — Returned to the cabin all swearing at Griffin.

SUNDAY 19th — A beautiful day but remained around the cabin all day as the St. Paupl's people do not desecrate the Sabbath by killing deer —

MONDAY 20th — Terrible storm all day. Disgusted with the hunting. All the deer tracks (thousands of them) are headed towards the east & south east — Not a deer left in the interior, all gone out to Brador and Forteau — Our Grub all finished.

TUESDAY 21st — Left on our return to the River at 7 A. M. reaching there about 2 P. M. No excitement at all in the country except one morning I had a chance to shoot a black wolf — He was only about 100 yds. from me, but when my bullet reached there his tail was all that was visible as he jumped over a 50 ft. precipice.

MONDAY 27th — Mr. Perron reached here on his return trip having gone as far as Chateau Bay — He reports more people and more intelligent down there than here. Also more game and furs. — He didn't go as far as Battle Harbor where the first hospital is — (2nd is at Indian Tickle). Mr. Grant at Blanc Sablon has an Esquirman servant who is a splendid hunter & whose wife plays the guitar beautifully—

THURSDAY, March 2nd — Mr. Frank Phillips of Mutton Bay arrived with the mail — was rewarded by receiving 10 letters — Folks at home & in Montreal are all well — no newspapers except a few soleils the Dr. was kind enough to send — All my letters were addressed in the Dr's care. I think that's the reason I got more than the other members of the party. All roads are in a terrible condition our departure is postponed for the present — We now spend the time in reading such novels as "Rieni", "Like Lucifer", "Beyond Pardon", "A Wonderful Woman" & such trash — It's no use trying to study law as there isn't a quiet spot in the whole river. Met Mr. Pie the Minister here, not a great man either physically or mentally — but perhaps he has the attributes of earnestness and sincerity so often lacking the Minister of God.

FRIDAY, MARCH 10th — The writer left St. Paul's River by Cometique with Jack Fequet at 9.30 A. M. Beautiful day — clear & mild. Reached L'anse a Portage 5 P. M. & as the dogs were tired decided to pass the night there. Altho' Foxy Jack (Belvin) rec'd \$180.00 for 2 silver foxes caught this winter, his house would put a pigpen to shame. Filth instead of neatness predominates — Could not sleep much as my bedfellow was a bitch with 5 yowling pups — Old Tony a typical Harpagon. Left at 7 A. M. for Ste. Augustine meeting 8 Cometiques on the route principal of which was Fred Robertson & family on the way to Pied Noir. Reached the river at 11 A. M. putting up at Jim Fequet's — where we remained until Wedy. 15th inst. Perron & Beau Chemin arrived 4 P. M. — Beau putting up with me & P. A. P. with Burgess.

WEDNESDAY 15th — Left Ste. Augustine 9 A. M. on Jim Fequet's Cometique. Beau with Mr. Burgess & Perron with Driscoll. At Tucker's house Bill Parker's team took Fequet's place. Lovely day — clear & warm. Mr. Burgess' dogs were delayed & delayed the rest of us by taking fits one day "Tiger" especially. Burgess chopped off the dogs tail — rather a heavy dose, as the usual cure is to slit the ears of the dog. Reach Toboctiere about 3.30 P. M. putting up at Mr. Sam Robertson's where I was royally treated. St. Patricks day passed off very quietly. No beautiful cab-horse steed curbetting across St. James Street in an attempt to clear the way "for the wearing of the green". Mr. Rothera came down from Mutton Bay to see me on Friday afternoon remaining over till Saty. night. Intend to leave on Monday for Tete a Baleine.

MONDAY 20th — Rained all day — Departure postpone sine die. Mr. Sam Robertson is very sick & when sick stammers a lot — Wishes me to find out about his admission to the Gen'l Hospital to attempt a cure. Mail expected about next Saty. 25th.

WEDNESDAY 22nd — Left for Tete a Baleine with Hiram & Henry Robertson's trains of dogs. Stopped at Baie des Moutons & took leave of the Greens & Rothera (his address Leeds, P. Q.) Reached Monges about 1 P. M. Mr. Perron remained there — Obtained Peter Blais train to take me to Romaine — Left 3.25 P. M. passing Harrington 6 P.M. & reaching Fortiers at 8 P. M. good going for only 4 dogs —

Stayed over night at Fortier. These people only got 6 seals this fishery, but they worry along by trading with the Indians.

THURSDAY 23rd — Left Fortiers 6.30 A. M. reaching Joe Galibois 6.55 (5 Miles — The fastest I've gone with dogs) — Breakfast there & left at 9.45 reaching Jos. Blois (Etamamier River) at 10.15 & Jones at noon where we were hospitably entertained to dinner. Left at 1.45 reaching Romaine 6.30 being lost a couple of times as my guide hadn't been up there for 8 yrs. & the islands seemed to have "increased or multiplied" in the interval — Two sealing schooners passed down today — Met old Joe with the mail just getting in to Whale Head on Wed'y. — He informed me that Dr. Tremblay had retained our letters & papers at Esq. P. S. tho I do not for the life of me know why. Put up with the Blacks —

APRIL 7th — Joe Hebert arrived with the mail. 7 letters & some Patries. Time passing very slowly. Do not think we can launch the yacht for 2 or 3 weeks yet — Nothing to read — Black does his utmost to remove our ennui but succeeds only tolerably. About one mile of ice (5-7 ft. thick) outside of the Yacht.

APRIL 22nd — Blouins schooner reached Washecooti River today — He has some mail for us — Must send a Cometique for it as he will probably not arrive here before Monday — Edward Bloise brought our letters (8 for me) — Also some La-Presses. Blouin arrived April 24th and encountered very much ice — He gave us some vague news of the Labrador and Castilian disaster also told us the Gaspesia ws still fast in the floes — The banks of ice extend from above Natashquan right to the Straits and cover about 10-25 miles and larger — Ice not broken much yet near the yacht — still about 3/4 mile solid.

APRIL 27th — Thursday — P. A. Perron telegraphs steamer St. Olaf due next Wed'y at Esq. Point and to endeavor to launch the yacht or barge. Visited yacht and Gregorie Yacht will be easier launched so will attempt it tomorrow A. M. Saw the Indian gang (encamped near Romaine) under Louis Thomas & he promised to let me have 5 Indians to aid in the launch — Peter Morrow & 4 other Indians come down from Musquarro this P.M. They promised to aid me also for a consideration (50c per head) —

APRIL 28, FRIDAY — Rose at 4.30, breakfasted & started 22 men hauling on our pulley system to launch the yacht. The N. W. wind of last night having considerably broken the ice, we were fortunate enough to have her in the water at 8 A. M. Telegraphed P. A. P. to that effect — Will start 2 p. m. Afternoon went on board at 2 P. M. but owing to the tardiness of some of the party were not ready to start until 4 — Then of course (my luck) the wind fell and we were compelled to anchor for the night near Ile Aur Marmettes—

SATURDAY, 29th — Weighed anchor 6 A. M. but wind didn't take us until 10 A. M. Only reached Kaska tonight. Calm most all day — only going up with the current. —

SUNDAY, 30th — Calm almost all day — Night dark & stormy — Puffy squalls from the N. W. with a little rain — Reached Natashquan at 4.30 A. M. on Monday, May 1st. Visited the Cure (who had telegraphed me asking permission to come up with us) had breakfast there. Gave him time to "dire une grande messe". Left with Cure Saward & Miss Christine Bourgeois on board about 8 A. M. Wind increasing tho puffy (N.W.) — Reached Esq. Point twenty minutes past twelve at night. M. LeCure and the lady went ashore immediately likewise the Capn. Lous and Beau & I remn'd on board.

TUESDAY, MAY 2nd — Went ashore 6 A. M. and saw all the folks. The poor Cure from Natashquan who was being transferred to St. Simeon just east of Malboie Parish, rec'd a telegram herein instructing him to remain on the coast until la retraite in the fall — He is very much put out but doesn't dare criticise the actions of his bishop — Rc'd 3 letters here from good old Rupe — Also 1 from Margaret May Riley — Expect St. Olaf to leave here on Friday A. M. Several schooners have re-

turned from the seal fishery one was 6 weeks fast in the ice (along with 3 others) & none of them got a single seal—Only one schooner did even fairly well 280 seals — Last summer was a poor season for fish, last fall no seals, winter hardly any furs and no spring seals. — God help the people of the coast if the present summer is not a season of fish in plenty — Two or 3 families of Indians seem to have died from starvation and exposure as the other Indians have no news of them since the first of the year.

Who can tell us about the party of Surveyors? Who were they? What was the purpose of this Survey? What year was it?

I would appreciate any information in addition to what is written above.

R. E. Millard, P. L. S.
Managing Editor Nova Scotian Surveyor.

Surveying Engineering At U. N. B.

PAPER PRESENTED AT THE 11th ANNUAL GENERAL MEETING OF THE
ASSOCIATION OF PROVINCIAL LAND SURVEYORS OF NOVA SCOTIA,

6th November, 1961

It has been said that the state of development of any country is consistent with the state of its mapping. Certainly, without maps there can be no adequate planning for the future, no responsible construction and only inefficient usage of the facilities that do exist. In assessing the potential of the underdeveloped countries of the world, the first requests are for maps. The United Nations Organization employs a body of consultant survey engineers to advise on mapping problems in underdeveloped areas. For military and strategic purposes millions of dollars per year are being poured into this business, both by the West and by the East. At the School of Cartography in Moscow alone there is an enrollment of over two thousand students (more than the total enrollment of U.N.B. and about four-fifths the enrollment at Dalhousie) and the Chinese output exceeds even these numbers.

It is no wonder then that responsible opinion in Canada turned to the universities for assistance in seeking a solution to the problem of the shortage of specialized, well trained men with a thorough knowledge of surveying. The discussions that took place at the 1959 Colloquium on Survey Education, held in Ottawa, are well known to everyone here. The first of the metaphorical trees sprouting from this was planted at the University of New Brunswick. After the initial period of development and growth in which a policy was defined, the first students are about to graduate. The fruit season is nearly here. Four students are expecting to graduate in May of the coming year and with these students rests the responsibility of gaining the initial recognition of the practicing surveyor, be it in private practice or government department. We anticipate that this will not be the easiest job to confront the individual for we do not pretend to be producing the polished performer on the level and transit — one who can go out and recover all the lost beacons in half the time that it took the old hand. Instead, our course is intended to cover a wide general field of survey in all its facets. This can be seen at once by taking a glimpse at the U.N.B. Calendar.

The first three years are common to several groups of engineers and it is only in the fourth and fifth years, so far, that specialized digression takes place.

Advanced surveying, photogrammetry, adjustment computation, geographical astronomy, map projections, mathematics, optics, electronics, legal aspects of

cadastral surveying, are some of the subjects treated in these years. A broad coverage, yes, but one which will enable the graduate to look at some of the associated professions with appreciation — appreciation of the work that they are there to carry out, and appreciation that he himself has chosen the best career of them all.

Recognition is coming. The professional engineers of three provinces have so far expressed official recognition of the potential of the course at U.N.B., but the final word is between the graduate himself and his co-workers. By the product, judge the firm. It is hoped that by providing a background of varied interests the gap existing at the moment between the photogrammetry-geodesy group in the large organization and the private land-surveyor, can be bridged and in so doing raise the standard of surveying generally and the stature of the group as a whole.

The facilities provided for the student of surveying at U.N.B. are such that would not shame a department of many years standing. So far, these include a first order stereo-plotter, 'Wild A-5' which will be installed within the next few weeks; Balplex, Multiplex and Kelsh (all projection type) plotters; Zeiss-Jena stereo-comparator, stereotope, stereoscopes and several modern precision theodolites and optical distance measuring devices. Besides these instruments we are fortunate enough to be able to borrow such additional equipment as geodimeters, tellurometers, etc. in order to familiarize the students with the working of as much of the new instrumentation as possible. Finally, for computing purposes there are several hand calculators, single, twin, manual and electric, either in use or on order, with the Royal McBee LGP30 Electronic Computer available for special problems. A display of maps and equipment from various parts of the world has been mounted in the entrance hall to the Survey section of the Civil Engineering Department. It is hoped that this will entice the passer-by into the rooms to examine for himself what this survey business is all about. We expect to change this exhibit periodically and to do this will require new material. At the moment the content of the display covers mapping, small-medium and large-scale work for topographic and cadastral purposes and photogrammetric applications to some of the foregoing.

Since the beginning of the current academic year we have had one distinguished visitor — Dr. Cote, Director of Surveys for the Province of Quebec. This week we expect a second — Mr. Slessor, Assistant Surveyor General. These visits have both been arranged in connection with our programme concerning cadastral surveys. It is expected that other visitors will follow at intervals throughout the year. One important outcome of these visits is that each visitor in the future will be requested to leave a copy of any paper presented during the course of the stay with us, together with any illustrative material. This procedure is intended to include speakers before the Federation Branch of the Canadian Institute of Surveying and the Association of Provincial Land Surveyors of New Brunswick and will enable us to build up a comprehensive library pertaining to survey within and outside the Province. Perhaps one day a retiring member or ex-visitor will be in a position to donate a set of back issues of the Canadian Surveyor or Empire Survey Review.

During the course of the coming year, it's anticipated that a start will be made on organized research. Thus far, there is one graduate student registered with us and working towards a Master's degree, and all being well, the first Ph.D. student will register next year. It's not clear as yet what research will be carried on, but possible fields include cadastral photogrammetry, glacial mapping and astronomic levelling.

Of the seven students attending fourth year lectures, four have been transferred from other areas — two from Ottawa, one from British Guiana and one from Jamaica. This raises the question of academic background. Prior to this time, only Laval has offered a course of this type and there has been little attempt to standardise the coverage in the first years of civil engineering courses, so that a transferring student will have a minimum of difficulty in settling down to his new surroundings. Last year an agreement was reached between Memorial University, Newfoundland

and the University of New Brunswick that will enable a third year student from Memorial to come directly into the survey course with no deficiencies to make up. This is to our advantage and a tremendous benefit to the student himself. It would be very agreeable to make similar arrangements with other associated universities.

What then of the future? Well it seems that the students are forthcoming. After a slight increase in numbers for the fourth year, there are several students expressing interest in surveying in the second and third years. We hope that they can maintain that interest but one thing seems clear: Whilst no advertisements requesting applications for employment as survey engineers appear in the newspapers and journals, the person who is interested but unformed on the possibilities that the future of surveying holds, will divert his interest to some other field, where it is apparent that employment awaits him. This does not imply that no jobs are available in this field. On the contrary, there is a shortage of such trained manpower and positions are filled without resorting to advertisement. If this country is going to fulfill the requirements of the present day in this respect, it must be made clear to the general public that there is employment for the trained survey engineer, that here is a career for young Johnny.

SUMMARY OF ACTIVITIES OF THE HALIFAX BRANCH OF THE CANADIAN INSTITUTE OF SURVEYING

The Halifax Branch of the Canadian Institute of Surveying received its Charter in January of 1960 and the first Meeting was held in March of that year. Interest in Branch activities has grown steadily and during our first two years we have held eleven Meetings and have been honoured by Speakers from Alberta, Ontario and New Brunswick as well as from the Halifax area.

Subjects taken by principal Speakers have concerned local, national and international affairs relating to the profession of surveying. Our first speaker from outside this area was Captain R. Coldham of the Army Survey Establishment, Ottawa, who directed the Israeli-Arab boundary survey while serving with the United Nations force. Professor Herkey Cameron of the Nova Scotia Research Foundation has described the use of high altitude photography in surveying and Mr. Philip Corkum of the Canadian Hydrographic Service delivered an interesting illustrated address on hydrographic operations on the MacKenzie River. Colonel Willis Roberts, Director of Surveys of New Brunswick explained the methods used to establish a Co-ordinate System in his province and we have heard encouraging reports from our Standing Committee which is Co-ordinating the efforts of local groups investigating the possibility of establishing a Co-ordinate System in Nova Scotia. Mr. H S. Coblertz, Director of the Metropolitan Housing Survey being conducted by the Province of Nova Scotia addressed our most recent meeting and very kindly explained some of the reasons for his survey and the benefits to be reaped by the Halifax - Dartmouth Metropolitan area as a result of this study.

During our short period of existence our membership has steadily increased but we would welcome as members or associate members any one in the area who has an interest in the activities of the Canadian Institute of Surveying and in particular the Halifax Branch. Any of our guests who may wish to make application for membership may obtain application forms from the Secretary-Treasurer after the Meeting.

CANADIAN INSTITUTE OF SURVEYING HALIFAX BRANCH

Meeting January 16th, 1961

Belmont Hotel, Dartmouth, N. S.

- (A) Forty-nine members and guests attended.
- (B) The meeting was called to order at 8:45 p. m.
- (C) The Chairman Mr. G. W. LaCroix welcomed guests and for those who were attending a meeting of the Halifax Branch for the first time he outlined the history of the Branch and its activities.
- (D) Normal business was dispensed with.
- (E) Mr. S. E. Dakin reported on the progress being made by the Standing Committee on the Co-ordinate System for the province of Nova Scotia.
- (F) At the request of the Chairman, Mr. J. E. R. March introduced the guest speaker Mr. S. C. Gamble.
- (G) Mr. Gamble, Director of the Surveys and Mapping Branch of the Dept. of Mines & Technical Surveys, Ottawa, spoke of the proceedings of the Third Cartographic Conference held recently in Bangkok, Thailand. He also expressed his pleasure at finding such a healthy Branch in the Halifax Area. Mr. Gamble used a number of slides to illustrate his address but unfortunately the projector broke down before the dancing girls were shown.
- (H) Mr. Geo. Bates, Vice-Chairman, thanked Mr. Gamble for a most informative and enjoyable address.
- (I) The meeting adjourned at 11:00 p. m.

H. R. Blandford,
Secretary - Treasurer,
Halifax Branch.

ANNUAL REPORT HALIFAX BRANCH CANADIAN INSTITUTE OF SURVEYING

The Halifax Branch has just completed its second year of operation. Interest and activity is still at a reasonably high level.

In our report last year we advised that we were planning two meetings for March for the purpose of discussing the question of establishing a Co-ordinate System of Control for the Province of Nova Scotia. The meetings were held as planned and were well attended. Interest was even greater than anticipated and a Standing Committee was formed to work with representatives of other interested groups in making a thorough study of the requirement and benefits to be realized as a result of the establishment of such a system. We were fortunate in having Mr. Willis Roberts, Director of Surveys for the New Brunswick Department of Lands and Mines, as guest speaker for the first meeting. Mr. Roberts presented a very informative address on the establishment of a Co-ordinate System in his province. Interest has grown steadily in private as well as Provincial Government circles and what was an idea a year ago may soon become reality.

Our June meeting was honored by the visit of the President of the Institute. We were pleased to welcome Mr. Lester and sincerely hope that he will come again. This meeting marked the end of our 1960-61 activities and on this occasion the following officers were elected for the 1961-62 term:

- G. W. LaCroix, Chairman;
- G. T. Bates, Vice-Chairman;
- H. R. Blandford, Secretary - Treasurer.

Two meetings have been held since resuming activities for the 1961 - 62 season.

The first of these meetings was held on December 14th, 1961 when the first speaker was Mr. H. S. Coblentz, Director of the Metropolitan Housing Study now being conducted in the Halifax - Dartmouth area. Mr. Coblertz spoke on various

aspects of the Housing Study as it concerned local Engineers and Surveyors and the benefits which should be realized by the Community as a result of such a study. All present were greatly impressed by the speakers remarks.

At the second meeting, on January 16th, Mr. S. G. Gamble, Director, Surveys and Mapping Branch, gave an excellent illustrated address on the proceedings of the Third Cartographic Conference held at Bangkok, Thailand.

I appreciate the help and co-operation of the members and executive of the Halifax Branch and look forward to another successful year.

G. W. LaCroix,
Chairman,
Halifax Branch.

THE CANADIAN INSTITUTE OF SURVEYING WHAT IT IS

It is a voluntary association of professional and technical people who are united by a common interest in the profession of surveying.

WHAT IT CAN DO FOR YOU

It can keep you informed of the new techniques and developments in the various fields of surveying and of the progress of the surveying and mapping program in Canada. It can help you to establish and maintain contacts with other surveyors and those in allied professions throughout the country.

These things the Institute does for its members through publication of its journal, The Canadian Surveyor, and through annual general meetings and meetings of the regional branches

HOW YOU MAY OBTAIN THESE BENEFITS

You may join as a Full Member, generally called Member, the fee for which is five dollars per year,

IF YOU HOLD a commission as land surveyor in Canada, or

IF YOU HAVE an engineering degree from a recognized university and are engaged in surveying, or

IF YOU ARE engaged in surveying and have attained professional status through experience and leadership.

You may join as a Junior Member, the fee for which is three dollars per year,

IF YOU ARE less than thirty years of age, and

IF YOU ARE occupied full time in a junior capacity in survey work of a technical nature, or

IF YOU ARE enrolled in a course of studies leading to a degree in engineering at a recognized university or to a commission as land surveyor.

You may join as an Associate Member, the fee for which is five dollars per year,

IF YOU ARE twenty-five years old or more, and

IF YOU HAVE an interest in the advancement of, or service to, the profession of surveying, but

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