

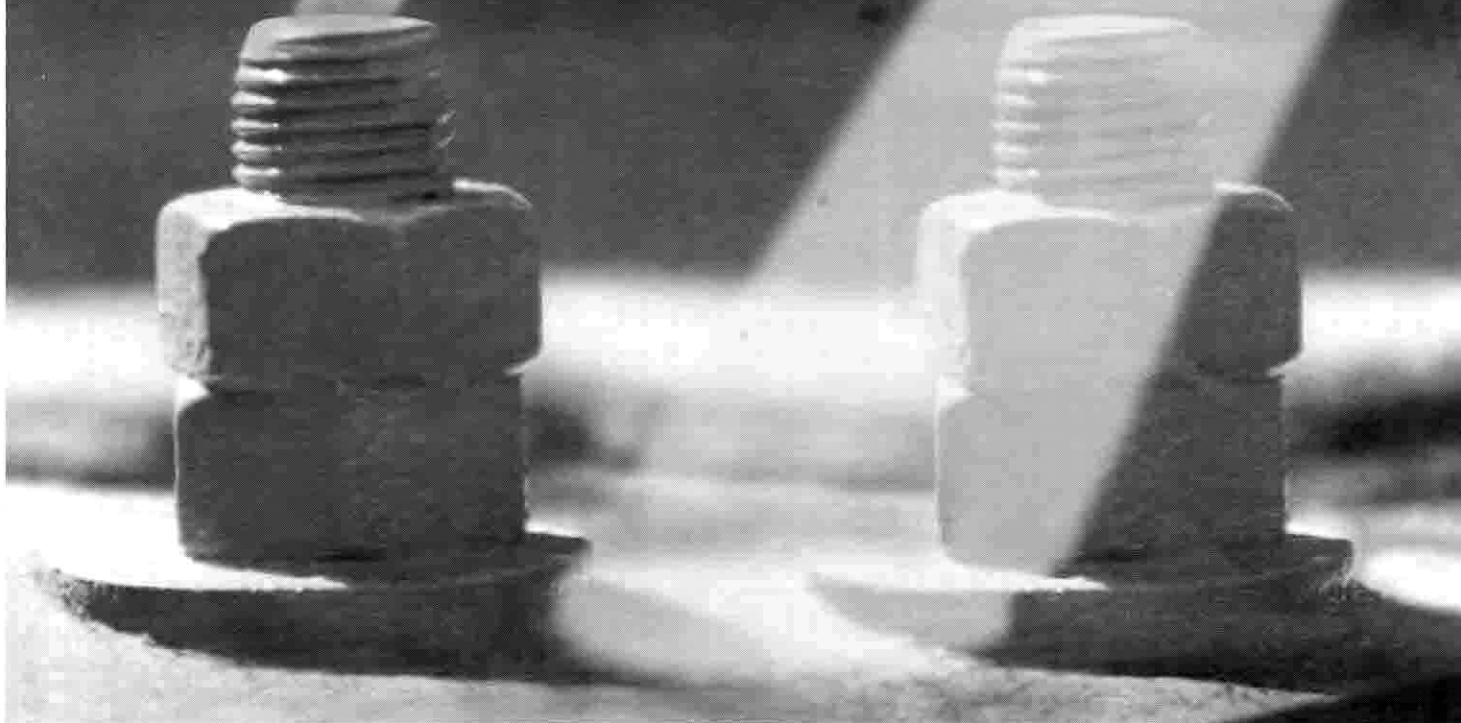
THE NOVA SCOTIAN SURVEYOR

Summer 2002

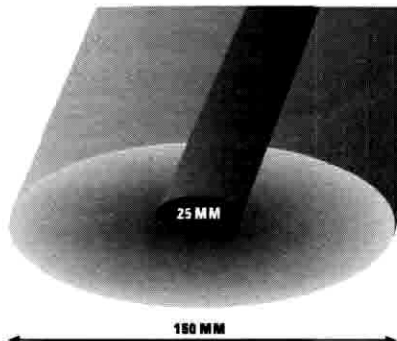
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SUMMER 2002

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THE NOVA SCOTIAN SURVEYOR

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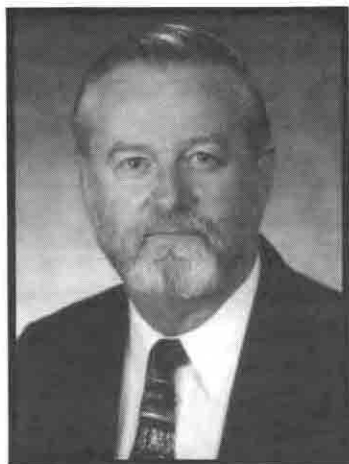
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Letters to the Editor should be limited to one page.

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PRESIDENT'S REPORT

George Bruce, NSLS



*It is better to have wise people
reprimand you than to have stupid
people sing your praises.*

Ecclesiastes 7: 5 (GNB)

During the next few months several committees are going to be submitting to us their proposals for possible changes to the regulations, by-laws and other documents. They will be seeking the opinions of "wise people" so that the feelings of the membership are well known before presentations and/or motions are made at the AGM. This gives the committees time to add, delete or alter all or parts of their submissions before bringing them to the floor of the meeting. Some proposals will be brought directly to Zone meetings by Committee heads and some will be brought forth by your councillor(s).

Many of the items to be considered are the result of a review of the regulations. Also, several by-laws are being looked at which relate to retired membership; continuing education; quorum size and terms for committees. Further to the above all Zones are being requested to call timely meetings to

facilitate this process.

Several past presidents have told me that the most significant outcome from their term was the knowledge that they gained during the year from their own and other Associations. I have already found this to be true and rather than save these points for the fall edition I would like to share them now:

Alberta is looking at establishing a process to get surveyors to the table to discuss their differences of opinion. Due to the defeat of their Practice Advisory Board proposal **British Columbia** will be investigating mandatory continuing education as an option. **Manitoba** is forwarding copies of Council minutes to all members. **New Brunswick** is developing a councillor's handbook that will, among other things, outline the Terms of Reference for Councillors. **Ontario** Council is holding "net" meetings using laptops. They are sending all minutes and Council information by e-mail. One hard copy of minutes is being retained at their office. **Quebec** is considering rejoining CCLS. **Saskatchewan** Land Titles Office has closed and a new Information Services Corporation has opened. The general consensus is that their ISC is "moving too fast and there is worry the system will explode".

Most provinces have a Survey Review Department, a Continuing Education Committee, or Mandatory Continuing Education. We have all three.

Council is heading back to the basics with regards to committees. Many times in the past 2 years, I've heard the familiar refrain: "It's hard to get volunteers and it's hard to get them to do anything." Personally, I disagree. First of all I don't consider anyone in the Association a volunteer. We are all working for a common cause and for one another. The alternative is to pay outside help. It's all over for the Association when that day arrives.

We have put together good committees this year and many items that have been hanging are finally getting cleaned up. Councillors have been assigned to report on individual committees and they bring regular updates to Council to be forwarded to the Zones. Also, Council is initiating actions to assure that, from now on, committees can be in place, have their terms of reference, and be up and running right after the AGM.

Ah, the AGM. Everything is coming along nicely. Pictou Lodge is booking up fast; however, there are many excellent accommodations available in Pictou.

The emphasis so far has been on entertainment. After the Zone meetings, we'll concentrate on the business end of things. There are going to be lots of pleasant surprises. Everything is being done for your pleasure. Those with partners who are able to come are being encouraged to include them. If you don't, I'll contact them afterwards and tell them what a good time you had.

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EXECUTIVE DIRECTOR'S REPORT

F.C. Hutchinson, BA, NSLS, CLS



Vacation time has arrived! Well, at least for some. Having been involved in private practice for over 25 years during my career, I found that summer is a production season. I still find this to be that case when I suggest or schedule meetings during the summer. The rebuttal is that it is vacation season but not usually for the surveyor in private practice. Thank goodness for winter sports, eh.

Personally, I was able to create a five day week-end and went sailing. Now, before you become too envious let me provide some details. The trip began on June 6 at 8:00 AM in the pouring rain with a temperature of 8°C. The trip was from St. Margaret's Bay, Halifax County to Pictou via the Strait of Canso — about 400 kilometres. The ocean swell of 10' with the occasional tsunami off Peggy's Cove just a few hours into our journey resulted in a stomach that churned with as much agitation as the ocean itself. Our progress was not much more than three km./hr. under diesel power and by 2:00

PM we sought the shelter of a friendly cove and awaited a new day.

The trip was aboard a 31.5' Aloha sloop with both radar and GPS for navigation. We were able to key in "way points" and steer accordingly. Mother nature provided us with a blanket of fog for certain portions of our trip and it was during these times that modern navigation proved most impressive and appreciated. It was always comforting to see a "bell buoy" pop up on the radar screen at about two kilometers out and then hear its friendly whistle in the fog. The navigation beacon that we had been steering towards for hours soon became a potential hazard and an obstacle that we now needed to avoid. My "view from the sea" certainly allowed me to reflect on the challenges and hardships that were faced by early explorers and immigrants during the age of sail.

Registration packages for the AGM in Pictou will be sent out in early September. Members are reminded that accommodations at Pictou Lodge should be booked as soon as possible since space is limited. Accommodation at other locations in Pictou should not be a problem if you happen to leave things until the last minute. The Delta Halifax Hotel has been selected as the venue for the 2003 AGM. The convention returns to the capital city after a five year tour of the province. Volunteers are needed for the convention committee that will soon be formed. Interested members are asked to contact the office so that planning gets an early start.

The historical alpha and numerical membership roll has been included in this issue. The roll of existing members for 2002 is now complete and will be mailed out shortly. With the membership information on the web site (www.ansls.ca) it is quite possible that future membership lists will only be mailed to members upon request. There are so many changes to addresses, phone and fax numbers and email addresses throughout the year that the members are encouraged to refer to the web site for the most recent version. The web site also provides information, articles and has a classified section available at no cost with approval of the listing by the webmaster.

We recently had a discipline hearing, with the decision and report not yet available. Members are reminded that the Discipline Committee only deals with items of professional misconduct as forwarded to them from the Complaints Committee. Care needs to be exercised by all members to avoid even the appearance of professional misconduct and to work with the Complaints Committee, if the situation presents itself, to resolve conflicts. There are still complaints from the public about the negative attitude of some members, incomplete research, boundary conflicts, trespass and acting as an advocate for a client. Communication and education will assist in resolving a lot of the problems encountered but the willingness to resolve a problem also has to be present. Let's work together and be professional. ■

SRD MANAGER'S REPORT

by Gerry Bourbonniere, NSLS

The association office has seen an increase in the number of calls from members requesting advice on particular problems they encounter. The Executive Director and SRD Manager share these calls and at times discuss the problem or situation before suggestions are made to the requesting member. Many times the member is looking for another thought or the "what if" comment from a fellow surveyor. We are pleased to assist the members in this manner.

A few plans have been submitted showing irregular road boundaries with no geometry along existing public or private roads. The boundary is shown as being included in the survey (i.e. boundary shown with a heavy line; contents of title block). Members are reminded of Regulation 61(1) which states that sufficient data be shown to permit the calculation of a closure of each parcel surveyed. A tie line between the terminal points of this irregular boundary does not satisfy the regulation. A road boundary is not a natural boundary and requires a mathematical definition. It is also unlikely that the requirement for the accuracy of the area calculation of the lot under survey - Regulation 60(1) - can be met using the tie line. Regulation 37(b) allows for boundaries of existing roads to not

be fully monumented, however it further requires that calculated points of curvature be shown along the road boundary. These "calculated" points of curvature have to provide sufficient geometry to satisfy Regulations 61(1) and 60(1).

The general public is becoming better informed about all technology. It appears that surveyors' clients are investigating requirements of surveys and the application of new technology. A member was recently asked about retracement surveys and the application of GPS with the suggestion that "now boundary lines will not have to be cut". Members are referred to Regulation 24 regarding boundary lines through wooded areas and brushing requirements.

Accounts and Submissions

Invoiced sales of SLC Numbers and SRD Plan submissions have revenue for the first six months of 2002 on budget.

Members' accounts are being kept up to date. On a monthly basis, the total outstanding for more than 90 days is generally in the \$1000 range. There are some extenuating circumstances for about 50% of this total which will be resolved with the individual member. The members'

attention to their accounts with SRD is greatly appreciated.

Submissions of plans and SLC's which bear recently issued numbers are kept quite current. There are still some problems with the submission of older issued numbers. Council approved a policy on May 24th which will eliminate older, outstanding submissions from our books. Beginning July 15, letters were sent to approximately 30 members or companies affected by the policy. SRD recognizes that, due to the limited scope of some member's practice, some numbers probably were not used by those individuals to date. Six of the letters were sent to confirm this.

Numbers Issued / Plans and SLC's Submitted to June 30, 2002

<u>Year</u>	<u>Issued</u>	
	<u>SLC's</u>	<u>Plan nos.</u>
2001	2904	1020
2002	3191	1479

<u>Year</u>	<u>Submissions</u>	
	<u>SLC's</u>	<u>Plan nos.</u>
2001	2766	1586
2002	3062	1691

It appears that the estimate of 5,500 SLC's being issued in 2002 was very conservative. The current figures indicate sales could be in the 6000 to 6500 range, comparable with the

years 2000 and 2001 (6500 and 6600 respectively).

Plan Reviews

To date in 2002, reviews include cursory/systematic reviews of 181 plans and 1277 SLC's (most SLC's were cursory only) and twenty-three site inspections. Many of the "cursory" plan reviews were more detailed than the "quick look" and included some mathematical checks. Comments were made on the several plans submitted by each surveyor. These comments were then consolidated to result in a review of

the surveyor's general procedures based on more than one plan, as would be the case in a "systematic" review. A "consolidated" review resulted in a visit with a surveyor to discuss SRD's findings. The member was appreciative of the comments provided and is now applying the recommendations discussed to surveys and plan preparation.

Other Activities

I assist the Executive Director, in his absence from the office, by handling calls from the general public. A

presentation based on the content of title blocks was made at the June 22nd seminar. I also represent the Association on two Registry 2000 committees and attended two of the "road show" presentations in May. The latter was done in conjunction with a site inspection trip. The monitoring of a member as per an Order of Discipline is now complete. A final report to the Discipline Committee and a report with suggestions for any future monitoring of this nature have to be completed.



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Councillors' Corner

*Raymond V. Pottier, NSLS
Councillor, Zone 1*



As the summer of 2002 finally takes hold and my second two year term as councillor for Zone 1 draws to a close, I have been looking back at the past four years with mixed feelings. I have been privileged to work with an extraordinary group of surveyors from across the province and I will miss the work on Council.

This year we have a number of new committee members. The committees have been given a fresh focus and they have been working diligently all year as you may have read in the Executive Director's Report in the Spring 2002 issue.

A number of issues will affect the business of surveying as we move further into the 21st century. Registry 2000 is being implemented and will surely change the way we work, Mandatory Continuing Education will soon be a reality and the provincial

government will be introducing a new reference framework for surveying and mapping in the province. Nova Scotia will realize the adoption of the Canadian Spatial Referencing System that was determined over the last number of years by a partnership of federal and provincial agencies.

We in the Maritimes have been in the unusual position in Canada of having had a relatively new and accurate referencing system first adopted in the 1970's. We all know that system as the Average Terrestrial System of 1977 (ATS77). Together with the associated projection planes, it has formed the framework to which the majority of boundary surveys has been referenced since its inception.

At first glance one would not think that adopting a new referencing framework would cause much of a stir in the surveying world. There is, however, the problem of transforming coordinates from one system to the other. This problem can be taken care of easily enough with the right transformation software. We can forget about this new referencing system, can't we?

Not quite. GPS receivers have been getting more affordable and more surveyors have been using this technology to increase productivity and to remain competitive in today's surveying market.

There is a growing need for surveyors to stay abreast of new technology and to have at least a working knowledge of the principles of geodesy and map projections. GPS systems always work on a global referencing system called WGS84 and use transformation software, both on the GPS unit itself and in the processing software, to display the coordinates that we surveyors work with. Since we in the Maritimes have been in the unusual position of having ATS77 as our reference framework, which is not used by anyone else in the world, some of the GPS software does not include ATS77 transformation data. This forces us to make our own.

While some of the GPS equipment manufacturers out there have this figured out, some have not and you may be required to take an active role in coming up with the transformation data. As with any other surveying tool, you must be confident that the measurements are accurate and the results are valid.

With all the different referencing systems being used in Nova Scotia over the years, there is an opportunity for Nova Scotia Land Surveyors to become the sought-after experts to sort it all out. Take advantage of the learning opportunities that come up and become indispensable to your clients and a leader among your peers. ■

AWARD WINNERS AT COGS

This year's recipients of the prizes awarded annually by ANSLS to deserving students at COGS are as follows:

G.T. BATES SCHOLARSHIP

For attaining highest standing
in the
Survey Technician Program
was awarded to

MICHAEL G. WILLIAMS

J.E.R. MARCH PRIZE

For best kept field book
in the
Survey Technician Program
was awarded to

MICHAEL G. WILLIAMS

J.A.H. CHURCH PRIZE

For showing the most
progress in the
Survey Technician Program
was awarded to

SIMON R. CHIPPER

Congratulations!



We received the following letters from the recipients of the scholarship and prizes:

Simon Chipper
Cap-Pele NB

May 2002

George Bruce, NSLS
325-A Prince Albert Road
Dartmouth NS B2Y 1N5

Dear Mr. Bruce,

Receiving the J.A.H. Church prize is one of the greatest achievements of my young career.

After working in this wonderful business for a few years now, this award makes my decision to return to school much more worth while. Being presented this prize from such a prestigious association as yours will drive me to succeed for many years to come, wherever it may take me. It is times like this that I know hard work and dedication pay off immensely. This is a great honor and I will carry the honor with me for the rest of my life.

As I plan to continue my education and become a licensed land surveyor, I hope to be in contact with you and your association in the near future. Please send my thanks to the rest of the board.

Sincerely,
Simon Chipper

Mike Williams
Milford NS

June 2002

Mr. George Bruce, President
Association of Nova Scotia Land Surveyors
325-A Prince Albert Road
Dartmouth NS B2Y 1N5

Dear Mr. Bruce,

I am writing to express my sincere thanks to you and the *Association of Nova Scotia Land Surveyors* for the awards I received during convocation at the Centre of Geographic Sciences on April 27th, 2002. I apologize for the tardiness of this letter but I have been hard at work with my former employers *Wallace Macdonald & Lively* since the 29th.

I thought you might like to know that membership in the *ANSLS* is a goal that a handful of classmates as well as myself are hoping to achieve in the future. I plan on pursuing the study of Land Surveying at the University of New Brunswick once I complete the GET program at COGS. One day I hope to join and make my own contributions to the *ANSLS*.

I worked hard all year long and was quite pleased, as well as surprised, to receive special recognition. Every single dollar helps to ease the financial burden that is association with post secondary education.

Once again I thank you for your generous contribution.

Sincerely,
Mike Williams, Survey Technician

Questions from the Public

The firm of Servant, Dunbrack, McKenzie & MacDonald has a section on their web site (www.sdmm.ns.ca) called "Ask a surveyor...". Robert A. Daniels, NSLS, CLS is the surveyor with the firm who responds to the questions.

Bob has provided a sampling of several questions received on their site during 2001 and noted below without editorial corrections. Keep in mind that the questions are from concerned individuals, about a profession that they do not fully understand. How would you answer the questions?

1. What does a surveyor do in the case of conflicting deeds that overlap in a small section of land?
2. What is meant by "status of land survey" and "color of right"?
3. We have had a land survey done to split some agriculture land. At a survey post, how many feet on either side of the post does the property begin? This is a survey line dividing the properties.
4. Highway right-of-way is 66 ft. Is this measurement taken at a 90 degree angle to the highway? And when measuring a property line, does a transit measure distance? If so, does it differ from measurements done with a tape measure?
5. When reading a standard "property description, e.g.; "Northwesterly 400 ft.....", etc..., what is the procedure to sketch a bird's eye, not-necessarily-to-scale, view of the property? Do you start from the 1st boundary and follow through consecutively?
6. When a lot of land next to yours is being surveyed to be sold, what are my rights and should the surveyor contact me regarding the land 'pins' that are being placed between the lots including mine? In the Surveyor's Act, shouldn't a surveyor respect the next landowner. In our case, the surveyor is drawing lines that would cut my land in half if that line would continue towards the end of my wood lot.
7. I am a property owner. I have heard something referred to as the "raindrip law". I believe it means that irregardless of what your survey says, you either actually own out at least as far as your raindrip, or you have a prescriptive easement out at least as far as your raindrip. In either case, an adjacent property owner could not come any closer than this with landscaping, etc.. Could you please verify.
8. Hello, I am interested in finding out more about the process one would go through to prepare to have some land surveyed.

My father owns approx. 200 - 220 acres of land. He has the deed for the property, however I have never seen it, and it is not clear as to exactly how much land is there, etc etc.

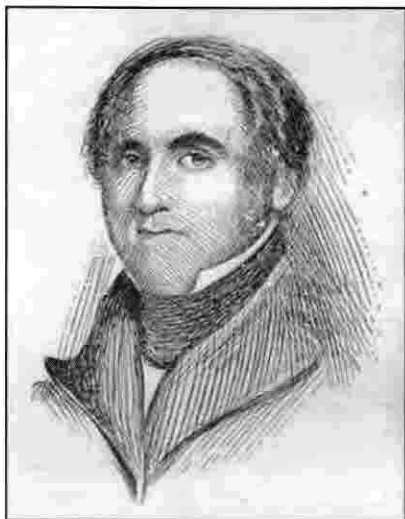
What information is required prior to having a parcel of land surveyed? Does one have to obtain a county map? Ensure that the land is indeed in that person's name?

Does a surveyor have to survey all the land under the name on the deed? Or can they survey a particular parcel that makes up the land in the deed?

I am concerned about legalities in wills, etc, if the land is not properly surveyed. Should that be a concern? What about subdividing? It has to be surveyed before it can be subdivided right?

Biography: Charles Morris June 8, 1711 – November 4, 1781

By F.C. Hutchinson, BA, NSLS, CLS



Charles Morris was surveyor general for the province of Nova Scotia for 32 years, a period that saw the founding of Halifax and Lunenburg and the coming of the pre-loyalists, when the colony's foundations were laid. Charles Morris also played a very

important part in the development of the province's justice system, occupying, as he did, a number of important positions on the bench.

Charles Morris was born in Boston, Massachusetts, eldest son of Charles Morris, a prosperous sail maker and Esther Rainsthorpe. Charles was to marry in 1731 into one of the high circles at Boston; his bride was Mary, the daughter of the Attorney General, John Read. Not much is known about his career up to the time Morris first came to Nova Scotia. Apparently he lived on his father's farm and taught school at Hopkinton, Massachusetts.

At any rate, in 1746 he received a captain's commission from Governor William Shirley. Morris was to raise a regiment and go to Nova Scotia. In 1746, there was a great deal of concern for the safety of Annapolis Royal, indeed of Boston itself, this, on account of a large French fleet, which was expected to arrive on the coast. By the time Morris arrived with his 100 New Englanders, the French fleet had already been defeated by weather and sickness.

He was ordered by Jean Paul Mascarene, the governor of English Nova Scotia at Annapolis from 1739-49, to

march with his men to Minas and wait the arrival by sea, of 400 more under Arthur Noble. He was there on January 31, 1747, engaged in conflict with the French and Indians during the The Battle of Grand Pré. Morris, unlike his friend Noble, was to survive the battle, and return to Boston.

Governor Shirley, in the spring of 1748, sent Morris from Boston (together with fifty men) to see what lands might be available for English settlement. Morris first called upon Mascarene at Annapolis Royal and then proceeded to Minas; after that he moved on to Chignecto. The result of Morris' work in 1748 was a 107-page manuscript with attendant maps that Shirley forwarded to the authorities in London. His reports and maps are of historical significance, depicting the location of the French habitations at Chignecto, Annapolis Royal and Minas. This information was instrumental in the founding of Halifax and for future settlements.

Morris was one of the first to greet the new Governor, Edward Cornwallis, in 1749 and was responsible in the laying out of the new town. Morris was to continue on in Halifax and to become one of its most prominent citizens. Instrumental in the site selection, Morris, also was to go down with the "Swiss/German" settlers in 1753 and assist in the founding of Lunenburg (he laid out the town and the garden lots). Morris' work in the establishment of Halifax and Lunenburg was recognized, when, late in December of 1755, he was appointed to Council.

The Expulsion of the Acadians beginning in 1755 is considered a "dark day" in Nova Scotia's political and cultural history. Morris was a key figure in advocating the elimination of the French threat and his 1748 report was put to good use by the British. With the defeat of the French at Louisbourg in 1758, the Indian threat no longer existed. The deportation of the Acadians resolved the "title problems" in respect to the rich agricultural lands around the Bay of Fundy. With these major impediments removed and with the

ever increasing population levels of the English colonies to the south, restricted as they were by the Appalachian range, New Englanders were beginning to see Nova Scotia as the place to come to farm and to live. Thus was to begin one of the great immigration waves (The New England Planters) to Nova Scotia. Morris was to be of great assistance to the location and establishment of the new settlements, which were to come into being during 1759-70, among them: Windsor (Piziquid), Truro (Cobequid), Liverpool, and Yarmouth.

From 1761 to 1769 Morris was busy assisting settlement and providing surveys throughout Nova Scotia. In 1761 he provided the Board of Trade with accurate settlement maps of the Minas Basin, Cobequid Bay and Chignecto. He was occupied in 1762 with charting the coast from Cape Sable to Cape Negro and fixing settlers in the townships of Barrington, Yarmouth and Liverpool. The following year he was investigating land disputes in Annapolis County and sent to New Brunswick to relocate Acadians along the St. John River to another part of the province. The Island of Cape Breton and Canso area occupied his summer of 1764 investigating the soils, rivers and harbours. The yet to be proclaimed province of New Brunswick commanded the attention of Charles Morris during 1765 to 1768 at which time he surveyed Passamaquoddy Bay and the Saint John River along with the townships of Sunbury, Burton, Conway and Gage.

Morris was on St. John's Island (PEI) from May to October of 1768 under orders from Lieutenant Governor Michael Franklin to lay the ground work for the town of Charlotte Town and other settlements on the island. On his return to Halifax he checked on the progress of the communities of Truro, Onslow and Londonderry. In June of 1769, Governor Lord William Campbell of Nova Scotia (1766-1773) instructed Morris, now approaching 60 years of age, to proceed to New York to settle the limits and boundaries for the Governments of New York and the New Jerseys. He was away for about a year attending to this task. It appears to have been his last major surveying job and the subject of another story.

Morris' judicial career began in 1750, when, in De-

cember of that year, he was appointed a justice of the peace for the Town of Halifax. In March of 1752, he was made a justice of the Inferior Court of Common Pleas. Up to 1754, there was no judge in Nova Scotia, including Morris, who had formal legal training. That was to change with the appointment of Jonathan Belcher as the first Chief Justice of Nova Scotia. In 1763 Morris was one of two judges appointed to assist Chief Justice Belcher. During May of 1764, Morris was appointed master in the Court of Chancery. With the death of the Chief Justice Belcher, in 1776, Morris was to step into his shoes as the acting Chief Justice of Nova Scotia until the appointment, in April of 1778, of Bryon Finucane. Morris reverted to the position of first assistant judge of the Supreme Court and held the position until his death in Windsor, Nova Scotia on November 4, 1781.

Charles Morris had eleven children during his marriage and was survived by his wife of 50 years. Charles and his descendants held the position of Surveyor General for Nova Scotia for more than 100 years.

Bibliography

1. Dictionary of Canadian Biography, Vol. IV, 1771-1800, U of T Press 1979;
2. www.blupete.com, sponsored by Peter Landry, B.Comm., LL.B., a Nova Scotian lawyer and historian.

Editor's note:

The funeral hatchment of Charles Morris is depicted on the cover of the last issue of The Nova Scotian Surveyor (#166). The hatchment hung outside his Halifax residence for a year after his death and was then moved to St. Paul's Church where it has hung for over 220 years. The hatchment is one of a collection of eight and is the subject of a restoration project that is being sponsored by the Association of Nova Scotia Land Surveyors.



HALL OF FAME

The Association of Nova Scotia Land Surveyors would like to inform its members that one of their own was recently inducted into the Softball New Brunswick Hall of Fame. This honour was accorded to Robert A. Daniels, NSLS, CLS, Past President and former Executive Director of the Association of Nova Scotia Land Surveyors along with other team members on July 6, 2002. The Fredericton Neill's Softball Team won the Maritime Senior "A" championship in 1962 and again in 1964. Bob began pitching softball at the age of 16 and at the age of 18 was the pitcher for the 1964 winning team.

Bob was born in Verdun, Quebec, a suburb of Montreal. His family moved to Fredericton, New Brunswick when he was five years old. He graduated from high school in 1965. Bob obtained a "certificate in forestry" from the Maritime Forest Ranger School in 1967. He followed that with a "certificate in cartography" in 1969 and a "diploma in land surveying" in 1971 from the Nova Scotia Land Survey Institute (now COGS) and continues his academic studies as a part-time student at Saint Mary's University in Halifax.

Bob holds licenses as both a Nova Scotia Land Surveyor (# 396) and a Canada Lands Surveyor (# 1147). He continues his interest in sports, is active as a seminar presenter and is the author of several articles dealing with business and the survey profession. Many of his articles have been published both nationally and internationally.



1964 Fredericton Neill's Softball Team



Bob Daniels - Inducted into the Softball New Brunswick Hall of Fame, July 2002

The 1964 team photo shows the 18 year old "Hall of Famer" as the young man sporting a ball cap, second from left in the back row. The 2002 photo shows a more mature version of Bob sporting his medal. Congratulations Bob!



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Be Careful Where You Cut!

Reprinted from The Nova Scotian Surveyor, February 1958, Vol. 8, No. 14

Many years ago, Whitman Freeman, deputy Crown Land Surveyor for the County of Queens, who resided in Milton, and died there in 1872, was approached by Mr. "X", a worthy and respected citizen of the young village of Caledonia, with the request that he make a survey of his property in that vicinity. Whitman replied that he was very busy at the time, but that he would attend to it at the earliest possible date.

Several months later, the survey not having been made, Mr. "X" was again in Liverpool and once more went to see Whitman, stating that Winter was fast approaching and that he was anxious to start logging.

Whitman replied that he was still very busy and had not had the opportunity to make the requested survey. He observed that however Mr. "X" undoubtedly had some idea of the boundaries of his lot, and thus could start well within those bounds without danger of cutting across the lines.

Mr. "X" replied that that was what he was afraid of, that his property was surrounded on three sides by Crown Lands and without knowledge as to where his own lines were, he was afraid that he might cut on his own lot, an attitude typical of many of our otherwise law-abiding citizens.

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FOR THOSE WHO TAKE LIFE TOO SERIOUSLY

1. Save the whales. Collect the whole set.
2. On the other hand...you have different fingers.
3. Remember, half the people you know are below average.
4. I drive too fast to worry about cholesterol.
5. Borrow money from a pessimist - they don't expect it back.
6. Experience is something you don't get until just after you need it.
7. A clear conscience is usually the sign of a bad memory.
8. Always try to be modest and be proud of it.
9. Get a new car for your spouse - it'll be a great trade!
10. If at first you don't succeed, then skydiving isn't for you.

Past, Present and Future

by F.C. Hutchinson, BA, NSLS, CLS

Past

It was 253 years ago on June 21, 1749, that Governor Edward Cornwallis sailed into Chebucto Harbour (Halifax Harbour). Five days later the transport ships carrying 2576 passengers arrived at the harbour's mouth. It wasn't long before a town site was selected and the surveying of Halifax began. The English had been established at Annapolis Royal since the early 1700's and also had a fishing settlement at Canso. The establishment of Halifax was a serious attempt to create an English presence between French-occupied Louisbourg and Boston. Halifax was to be both a civilian settlement as well as a military garrison. As with any new land development, records must be kept in order to ensure that all parties' rights are protected. A land registry system was one of the first "orders of the day" for this new town and surrounding area.

The Registry system has not changed since the first lots were drawn for on the Halifax waterfront 253 years ago. Oh, we now photocopy, scan documents and do electronic retrievals, but Book # 6529 is still compiled and stored the same as Book # 1. The old Grantor/Grantee Index, however, will soon be replaced by a numerical identifier system, Registry 2000. The surveyor's role from the public's perspective has always been one of, "*show me where I own*" and that will not change. The surveyor of today needs to be aware of past surveying activities, existing title documents, statute and case law, surveying principles and modern technology. The days of carving a Crown Grant out of the wilderness with no regard for prior or adjacent title holders is gone.

Present

The surveyor of the 21st century basically performs two functions. He/she either plays the role of a technician in positioning a newly established boundary or he/she is engaged in the re-establishment of a former boundary. Yes, we do many other tasks but those are the two on which we have a monopoly

by legislation. The retracement survey is most likely our greatest challenge and a challenge that never seems to be the same.

Even though the history of properties differs by virtue of deed description, ownership, occupation, geography and monumentation, the rules and approach to retracement should be consistent. Your opinion should not be swayed by personalities and you should never take the role of an advocate. The surveyor, in providing a service to the public, no matter who may be paying for the contract, needs to remain impartial and is as close to a public servant as you can get without qualifying for a pension.

We all have stories of retracement surveys from hell and many may honestly believe that the minute you pick up a deed you start to lose money. You should only lose money, however, if you work for nothing, under bid the job or are unable to provide a defensible opinion if challenged. I cannot help you if you choose to provide free service but I can offer some advice on what a defensible opinion should consist of. Defensible means that you must have a reason for your opinion other than "*because*" or "*that's what the owner told me*". The surveyor strives for full disclosure of all documents, the location of all boundary evidence, occupation and any relevant topographic feature. Competent survey and recording procedures are expected in every situation. Standards must not be compromised based on the degree of difficulty assigned to a project.

The preparation of a "Report of Survey" for a completed project seems to be an area that many surveyors have neglected. Remembering what you did may not be too great a task with the plan as a reference but why you did it may pose a problem. A written report should indicate the chronology of the job, evidence used to establish the boundaries along with evidence considered but rejected. In today's electronic world field books still have a purpose for diagrams, point identification and recording state-

ments by concerned parties. Oh, by the way, if someone shows you a point and makes certain claims to its origin and accuracy, have them sign a statement in your book or initial your diagram with appropriate wording. You may find reasons not to accept their opinion but at least you have proof that you gave it consideration. The report should remain in the project file for future reference.

You need to talk to your client and indicate where the boundary line and markers will be placed. It should not be a surprise. If the location has the possibility of more than one opinion, the alternatives and rationale need to be discussed with the client as well as the adjacent land owner. You say that your client does not want you talking to the neighbor at his expense. Well maybe it is time to lay down some ground rules or be prepared to walk away from the project. Remember that your opinion of the boundary location is just that, an opinion and not a guarantee. "A penny saved, is a penny earned." Collecting your account may prove to be difficult if the client does not like the results and the neighbor may also demand your attention with no intention of compensating you for your time.

Future

Under the Land Registration Act (Registry 2000 land titles statute), title to a parcel of land will be guaranteed by the Crown. The title guarantee will be dependent on the solicitor providing a "warranted deed" and an "abstract of title" to the Crown Registrar for review and acceptance. The extent of title, however, will still be the responsibility of the surveyor. The document that controls the extent is the survey plan and/or the description in the deed. When a retracement survey or subdivision plan is done that changes the configuration of a registered parcel, a new description will be required. Presently a new property description only surfaces upon a conveyance but with R-2000 a new description will be required to update the property database once the extent of title is altered.

It is my opinion that the surveyor is the most logical and the only individual authorized by statute to provide an opinion on the extent of title. I refer you to the Land Surveyors Act, Section 2(J) -

"professional land surveying" means the advising on, the reporting on, the supervising of and the conducting of surveys to determine the horizontal and vertical position of any point and the direction and length of any line required to control, establish, locate, define or describe the extent or limitations of title". I interpret this statute definition to mean that the authoring of a property description is advising and reporting on extent of title.

When preparing a plan that illustrates a boundary location, the plan is first and foremost a "plan of survey". The illustration of topographic features, easements, subdivision or consolidation of lots may be the objective of the plan but it does not happen without the retracement survey first. The diagram on the plan must be neat, legible and understandable. That is, it should not be a "head scratcher" in order to determine the extent of the perimeter or the newly created lot(s). If a surveyor other than the author or a member of the public has a problem understanding the plan then how can a reliable property description be created? The survey plan and property description need to agree and be both professional and complete.

The new land titles program will expect nothing less and neither should the surveyor. ■

Fred Hutchinson is the Executive Director of the Association of Nova Scotia Land Surveyors, with over 30 years' experience as a land surveyor. He sits on the Steering Committee for the implementation of the Land Registration Act.

Beech

*Where my imaginary line
Bends square in woods, an iron spine
And pile of real rocks have been founded.
And off this corner in the wild,
Where these are driven in and piled,
One tree, by being deeply wounded,
Has been impressed as Witness Tree
And made commit to memory
My proof of being not unbounded.
Thus truth's established and borne out,
Though circumstanced with dark and doubt
Though by a world of doubt surrounded.*

~ Robert Frost ~

ALPHABETICAL HISTORICAL REGISTER OF NOVA SCOTIA LAND SURVEYORS

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 Miller, F. Wayne (337) *
 Miller, Lawrence G. (568)
 Miller, Robert Allan (226)
 Milligan, Stephen Walter (507)
 Milner, B.W. (151)
 Milo, Philip Murray (277)
 Milo, W. Gavin (329)
 Mitchell, Kenneth Roscoe (267)
 Monaghan, J.W.L. (383)
 Monplaisir, Oman E. (181)
 More, John F. (488) *
 Morrissey, William J. (109)
 Morrison, Roderick P. (30)
 Morrison, William P. (90) *
 Morse, Eric (609)
 Mosher, Medford C. (134) *
 Mosley, Harold G. (28)
 Muise, Patrick C. (566)
 Munro, Kevin M. (583)
 Munroe, David M. (326)
 Murray, A. Howard (116) *
 Murray, Peter A. (456)
 Murray, Robert R. (190)
 Myra, Glenn R. (584)
 Newbery, Frederick W. (186)
 Nicholson, Gordon (145)
 Nightingale, G.H. (105)
 Noel, Francis (206)
 Nolan, Frederick G. (84)
 Nolan, Richard T. (472)
 Nutter, Kirk Thomas (481)
 O'Brien, Robert E. (303)
 O'Sullivan, William Jr. (209)
 Oliver, Vernon G. (412)
 Osmond, Jack (300)
 Owen, Allan J. (536)
 Pamenter, Archie F. (131)
 Parker, Donald L. (375)
 Parker, Garry Stewart (455)
 Patriquin, Sheldon C. (322)
 Peel, Brian David (309) *
 Pertus, John A. (111)
 Peters, Michael H. (576)
 Phillips, James Lindsay (506)
 Phillips, William C. (264)
 Phinney, Gerald F. (149)
 Piers, O.E. Temple (9) *
 Piggott, William W. (492)
 Podetz, George E. (545)
 Pope, John S. (140)
 Potter, Brian P. (361)
 Pottier, Gerald Augustin (394)
 Pottier, Raymond V. (560)
 Prendergast, Dennis, M. (551)
 Price, Jacques (50) *
 Probert, William J. (458)
 Pugsley, Clarence W. (464)
 Pugsley, Donald C. (471)
 Pulsifier, Donald W. (340)
 Purcell, Donald V. (321)
 Rafuse, MacAllister D. (201)
 Rayworth, Walter Chapman (399)
 Reardon, Kenneth V. (278)
 Redden James A. (572)
 Redden, Robert S. (457) *
 Reid, J.E. (167)
 Rice, Edward P. (246)
 Richard, Cornelius D. (25)
 Richmond, Albert S. (223)
 Riggs, Albert O. (171)
 Ritchie, Edward B. (115) *
 Ritchie, Rebecca (590)
 Rix, Donald L. (307)
 Robart, Charles H. (153)
 Robb, Kenneth W. (225)
 Roberts, David T. (420)
 Roberts, F.W. (354)
 Robertson, Elliot M. (39) *
 Robertson, H.B. (124) *
 Robichaud, J. Irene (104)
 Rodgers, Charles D. (29)
 Rosinski, Otto Paul (269)
 Ross, John Frederick (256)
 Ross, John W. (413)
 Ross, William E. (515)
 Russell, John (120) *
 Rutledge, A. Blake (205)
 Rutledge, Stephen L. (561)
 Ryan, James L. (49) *
 Ryan, John H. (316)
 Saltman, Fred E. (147)
 Sampson, C.D. (117)
 Sarty, Robert F. (241)
 Schofield, Laurie A. (144) *
 Schofield, Roy M. (10) *
 Seamone, Douglas A. (265)
 Sellers, George R. (435)
 Semper, R.O. (229) *
 Servant, Walter E. (41) *
 Setchell, Stewart R. (513)
 Sheppard, Fred S.L. (463)
 Sherren, James C. (189) *
 Singer, Grant (215) *
 Slaunwhite, Paul H. (607)
 Smith, Burney Arthur (290)
 Smith, Eric D. (216)
 Smith, Harold B. (308) *

Smith, Lewis O. (110)	Thompson, John Forbes (270)	Wedlock, David H. (552)
Smith, S. Gregory (527)	Thompson, Kenneth G. (165)	Wedlock, Howard K. (112)
Smith, Thomas Burton (339)	Thompson, William A. (351)	Wendt, Paul (199)
Smith, Thomas W. (381) *	Thorne, David S. (423)	Wentzell, Garnet E. (377)
Smith, Thurlow M. (27)	Tingley, Lester R. (535)	Wentzell, Robert (441)
Snook, Walter A.G. (3) *	Treffler, Frank Michael (243)	Wentzell, Ronald G. (263)
Snow, Leander R. (15)	Tupper, Freeman (5) *	Whalen, Kenneth M. (562)
Snow, Sterling G. (177)	Turnbull, David N. (541)	Whitby, Elliot (240)
Spence, Graydon D. (56) *	Turner, Bruce Eugene (482)	White, Arthur A. (352) *
Spence, W.M. (233)	Turner, Erwin R. (431)	White, Keith T. (424)
Spidle, Darryl R. (419)	Vaughan, J. Philip (462)	White, Ralph E. (382)
Steeves, David A. (585)	Vaughan, Stephen O. (436)	White, T.L. Stephen (586)
Sterns, William S. (571)	Velleux, J.L. (242) *	Whynot, Mark J. (615)
Stewart, Valmore (198)	Verner, Earl J. (113)	Whyte, David J. (523)
Stoddart, Shaun R. (534)	Verner, M. Geoffrey (540)	Whyte, Eric R. (514)
Stone, Paul C. (433)	Verner, W. Gregory (533)	Wightman, F.C. (35)
Streb, George Edward (314) *	Wadden, M. Gary (542)	Wildman, William Neil (299)
Sullivan, Hugh James (330)	Wadden, Melvyn H. (218) *	Wilhjeim, F.E. (55)
Surette, Richard (444)	Wade, Gerald E. (362)	Williams, Robert B. (19) *
Sutherland, Donald R. (493)	Wade, Robert F. (133)	Williston, Thomas G. (369)
Sutherland, John C. (416)	Wadge, Ray (231) *	Wolchansky, Victor (400)
Swanburg, George W. (87)	Wagner, Gilbert K. (476)	Wolfe, Brian Darrel (272)
Swanby, Thomas C. (274)	Wagstaff, Donald E. (36)	Wright, Albert James (401)
Swanson, A. Thomas (425)	Wallace, Alfred Ernest (398)	Wuhr, Mathias (261)
Swinamer, Victor E. (386)	Wallace, Stephen (602)	Yates, Frank D. (195)
Taggart, Charles H. (162)	Wallis, Ronald George (360)	Zinck, L. Paul (445)
Tanner, Michael S. (588)	Ward, Ross M. (524)	Zurel, Michael (289)
Taylor, Lloyd K. (437)	Watson, W.B. Jr. (130)	
Telfer, Edmund S. (169)	Waugh, John Alexander (466)	
Telfer, Leonard W. (332)	Weaver, J. Edward (574)	
Theriault, Richard J. (158) *	Webber, Edward J. (349)	

NUMERICAL HISTORICAL REGISTER OF NOVA SCOTIA LAND SURVEYORS

#1 James D. McKenzie *	#11 Charles W. MacAloney	#21 Spencer Ball *
#2 Reginald E. Dickie *	#12 Robert A. Logan *	#22 Hugh MacPherson
#3 Walter A.G. Snook *	#13 Colin MacPhail	#23 David W. Lambden
#4 J. Ruskin March *	#14 Angus MacLeod	#24 Dana A. Maxwell *
#5 Freeman Tupper *	#15 Leander R. Snow	#25 Cornelius D. Richard
#6 R.E. Millard *	#16 George R. Parry *	#26 Robert H. Burgess
#7 Errol B. Hebb	#17 Chester A. Keen	#27 Thurlow M. Smith
#8 Herbert Martell *	#18 Hoyes A. Cameron *	#28 Harold G. Mosley
#9 E.O. Temple Piers *	#19 Robert B. Williams *	#29 Charles D. Rogers *
#10 Roy M. Schofield *	#20 James A.H. Church *	#30 Roderick P. Morrison

#31 S. Edgar March *	#75 T.W.J. Lynch *	#119 Wallace H. Betts
#32 Seymour C. Crowell	#76 John V. Brown	#120 John Russell *
#33 R.T. Christie	#77 Ellsworth O. Harling	#121 Frederick E. Hatt
#34 E.F. McManus	#78 Leonard M. Harvey *	#122 Arthur M. Dechman
#35 F.C. Wightman	#79 Basil L. Bloomer	#123 Howard W. MacKay
#36 Donald E. Wagstaff	#80 Alvinie E. Amirault	#124 H. Burt Robertson *
#37 William S. Crooker *	#81 Gerald B. Boyland	#125 William H. Foster *
#38 J. Roy Hale	#82 Victor W.E. Johnston *	#126 Gordon L. Crichton
#39 Elliott M. Robertson *	#83 William A. Arsenault	#127 Glen M. Hilchie
#40 Dr. G.W.I. Creighton	#84 Frederick G. Nolan	#128 William E. Chambers
#41 Walter E. Servant *	#85 Norris L. Bushell	#129 Elmer A. MacDonald
#42 Joseph F. Archibald	#86 Roy C. Amero	#130 W.B. Watson, Jr.
#43 Raymond J. Milgate *	#87 George W. Swanburg	#131 Archie F. Pamenter
#44 A.C. Harris	#88 H.W.L. Doane *	#132 Duncan B. Gillmore
#45 Ian MacInnis *	#89 J. Ronald Chisholm	#133 Robert F. Wade
#46 Arthur F. Chisholm	#90 William P. Morrison	#134 Medford C. Mosher *
#47 James R. Baker	#91 Rev William P. Fogarty	#135 Roger P. Carey
#48 Henry M. Anderson	#92 J.W. Byers	#136 Charles M. Douglas
#49 James L. Ryan *	#93 Oliver H. Manuel	#137 Beverley J. Hamm
#50 Jacques Price *	#94 James K. McKay	#138 David W.W. Hudson *
#51 John E. MacKenzie	#95 John H. Comeau	#139 J. Walter Lahey *
#52 Andrew MacGillvray *	#96 Donald L. MacQuarrie	#140 John S. Pope
#53 Yorke C. Barrington	#97 Donald J. MacQuarrie	#141 Roger F. Melanson
#54 C.C. Lindsay *	#98 C.C. Lemmon *	#142 V.P. Harrison *
#55 F.E. Wilhjelm	#99 J. Philip Dumaresq	#143 John R. Fiske
#56 Graydon D. Spence *	#100	#144 Laurie A. Schofield *
#57 Edmund A. Crawley *	#101 Peter G. Boutilier *	#145 Gordon Nicholson
#58 Alexander C. MacKay *	#102 James F. Kelly *	#146 Donald J. Bird
#59 F.W. Forbes	#103 George Killam	#147 Fred E. Saltman
#60 Charles L. Archibald	#104 J. Irene Robichaud	#148 Ralph Kendall *
#61 Eldon Adams *	#105 G.H. Nightingale	#149 Gerald F. Phinney
#62 Walter L. Ball	#106 Murray F. Cossitt *	#150 Edward S. Foster
#63 Gerald D. Hughes	#107 C.S. Creighton	#151 B.W. Milner
#64 Alan T. MacDonald	#108 George T. Bates *	#152 G.D. Ellis
#65 Donald L. Eldridge *	#109 William J. Morrissey	#153 Charles H. Robart
#66 Ernest F. Boehk	#110 Lewis O. Smith	#154 F. Lyndon Gray
#67 John A. Fraser	#111 John A. Pertus	#155 Matthew McMullin
#68 Philip C. Ahern	#112 Howard K. Wedlock	#156 H.J.A. Grant
#69 James G. Martin	#113 Earl J. Verner	#157 Angus MacMillan
#70 John B. Cameron	#114 Lionel E. Boutilier	#158 Richard J. Theriault *
#71 Alan Macdonald	#115 Edward B. Ritchie *	#159 Russell Melanson
#72 Noel R. Harrington	#116 A. Howard Murray *	#160 Leamond Hunter
#73 George B. MacAuley	#117 C.D. Sampson	#161 Reginald McColough
#74 Brian R. Alexander *	#118 Donald D. MacAskill	#162 Charles H. Taggart

#163 H.D.G. Currie *	#207 Ralph Hale	#251
#164 Robert J. MacIntyre	#208 John A. McElmon	#252 Arthur C. Gilmore
#165 Kenneth G. Thompson	#209 William O'Sullivan, Jr.	#253 W. Stewart Laurence
#166 Curtis M. Boylan	#210 Daniel R. Gopaul	#254 Stewart S. Dunbrack
#167 J. Edmond Reid	#211 Ivan P. Macdonald	#255 Allison B. Grant *
#168 Allan F. Collings	#212 Murdock A. Ferguson	#256 John F. Ross
#169 Edmund S. Telfer	#213 David L. Crooker	#257 Neiff Joseph
#170 V.C. Blackett	#214 Bruce Havill	#258 R.C. Hatherley
#171 Albert O. Riggs	#215 Grant Singer *	#259 Ronald S. Giffin
#172 Stephen E. March	#216 Eric D. Smith	#260 A. Thomas Barry
#173 Douglas C. MacLean	#217 J. Carl MacDonald	#261 Mathias Wuhr
#174 Cyril B. Carlin	#218 Melvyn H. Wadden *	#262 Graeme H. King
#175 G. Emerson Bill	#219 Robert E. Gough *	#263 Ronald G. Wentzell
#176 Pierre LaPointe	#220 James F. Doig	#264 William C. Phillips
#177 Stirling G. Snow	#221 Norman R. Eddy	#265 Douglas A. Seamone
#178 A.T. Banks	#222 L. Robert Feetham	#266 Melbourne L. Johnson
#179 Alexander M. McDonald	#223 Albert S. Richmond	#267 Kenneth R. Mitchell *
#180 Victor J. Gaudet	#224 J. Allan Ingarfield	#268 Granville M. Leopold
#181 Ornan E. Monplaisir	#225 Kenneth W. Robb	#269 Otto P. Rosinski
#182 Allan C. Crandall	#226 Robert A. Miller	#270 J. Forbes Thompson
#183 David W. Crandall	#227 John H. MacDougall	#271 John W. Marshall
#184 Victor J. Comeau	#228 Floyd R. McNeil	#272 Brian D. Wolfe
#185 Evans G. Drysdale	#229 Robert Semper *	#273 C. Joseph MacLellan
#186 Frederick W. Newbery	#230 Orrin A. Clark *	#274 Thomas C. Swanby
#187 Gerald F. MacDougall	#231 Ray Wadge *	#275 Douglas K. MacDonald
#188 Glen E. Jefferson	#232 Robert J. Donovan	#276 Charles A. MacDonald
#189 James C. Sherren *	#233 W.M. Spence *	#277 Philip M. Milo
#190 Robert R. Murray	#234 W.C. Coolen	#278 Kenneth V. Reardon
#191 F. Bern Dyer	#235 John A. Dunbar	#279 Frank Longstaff
#192 Charles A. Campbell	#236 Lewis E. Elliott	#280 David R. Hiltz
#193 Robert L. Hunt	#237 Edward G. Hollingum*	#281 Arthur V. Digout *
#194 Francis A. Garraway	#238 William S. Crooker, Jr.	#282 John Donaldson
#195 Frank D. Yates	#239 F.W. McKeown	#283 A.C. Freckleton *
#196 C. Irwin Cameron	#240 Elliot Whitby	#284 Michael B. Campbell *
#197 Hazen B. Meldrum	#241 Robert F. Sarty	#285 Roddie J. MacDonald
#198 Valmore Stewart	#242 J.L. Velleux *	#286 Robert G. Cameron
#199 Paul Wendt	#243 Frank M. Treffler	#287 Charles Dunn *
#200 David D. Arscott	#244 Arthur M. Foster *	#288 Lyman E. Huskins
#201 MacAllister D. Rafuse	#245 Kenneth P. MacDonald	#289 Michael Zurel
#202 Millan J. MacDonald *	#246 Edward P. Rice	#290 Burney A. Smith
#203 Ernest J. Comeau	#247 Roy A. Dunbrack *	#291 Henry L. Langley *
#204 Ephrem Chiasson	#248 Colin H. Bracey	#292 David C. Clark
#205 A. Blake Rutledge	#249 Emerson C. Keen	#293 John C. MacInnis
#206 Francis Noel	#250 H.A. Gallon	#294 Lawrence S. Long *

#295 Garnet F. Clarke	#339 Thomas B. Smith	#383 J. Lawrence Monaghan
#296 John A. C. Kaulback	#340 Donald W. Pulsifer	#384 Allen M. Hunter
#297 David W. Latimer	#341 Harry M. Edwards	#385 Brian A. Anderson
#298 Stephen M. Bancroft	#342 G. Edward Hingley	#386 Victor E. Swinamer
#299 William N. Wildman	#343 Glenford L. Gilbert *	#387 Richard E. Greene
#300 I. John Osmond	#344 Claude F. Bonnell	#388 D. Lee Johnston
#301 Chester W. Gehue	#345 Peter L. Dodge	#389 Michael J. Crant
#302 Donald J. MacNeil	#346 Edward V. MacDonald	#390 Ray A. Fulton
#303 Robert E. O'Brien	#347 Arthur E. Briggs	#391 Harvey W. Doane
#304 John Covert	#348 James D. Chisholm	#392 H. Daniel Baillie
#305 Donald C. Campbell	#349 E.J. (Ted) Webber	#393 Arthur H. Abbott
#306 J.R. Maharaj	#350 W. Russell Atkinson	#394 Gerald A. Pottier
#307 Donald L. Rix	#351 William A. Thompson	#395 Donald T. Gillis
#308 Harold B. Smith *	#352 Arthur A. White *	#396 Robert A. Daniels
#309 Brian D. Peel *	#353 Gordon R. Kressner	#397 Allan V. Downie
#310 David N. Hamilton	#354 Fred W. Roberts	#398 Alfred E. Wallace
#311 Gregory J. MacDonald	#355 Marcellin S. Chiasson	#399 Walter C. Rayworth
#312 Stuart W.E. Cameron	#356 Robert K. Carrick	#400 Victor Wolchansky
#313 Murray J. Banks	#357 Harold E. Burton	#401 Albert J. Wright
#314 George E. Streb *	#358 Brian J. Cameron	#402 Michael F. MacNeil
#315 Gerald W. Conrad	#359 Garnett E. Bowman	#403 Colin W. Clarke
#316 John H. Ryan	#360 Ronald G. Wallis	#404 Gary G. Grant
#317 Ronald C. Dearman	#361 Brian P. Potter	#405 A. Terrace Edgett
#318 Roger B. Meister	#362 Gerald E. Wade	#406 Arthur T. Bent
#319 Robert B. Lawrence	#363 Lionel L. Crowe	#407 J. Gary Glenn *
#320 Thomas S. Foster	#364 Arthur C. Harris	#408 Alexander B. Cameron
#321 Donald V. Purcell	#365 Mervin W. Hartlen	#409 Lester W. Berrigan
#322 Sheldon C. Patriquin	#366 W. Bruce Millar	#410 James E. MacNeil *
#323 Everett B. Hall	#367 Gerald L. Mehlman	#411 Willard M. MacDonald
#324 William F. Mason	#368 Athol C. Grant	#412 Vernon G. Oliver
#325 Douglas W. Joudrey	#369 Thomas G. Williston	#413 John W. Ross
#326 David M. Munroe	#370 Stewart E. MacPhee	#414 James W.P. Grant *
#327 Richard E. Dunbar	#371 William H. Gates	#415 Keith P. AuCoin
#328 J. Edward Hanifen	#372 Douglas B. Mehlman	#416 John C. Sutherland
#329 W. Gavin Milo	#373 Burton L. Cain	#417 Dominic D. LeLievre
#330 Hugh J. Sullivan	#374 John R. Logan	#418 Harold S. Lively
#331 J. Albert MacCallum	#375 Donald L. Parker	#419 Darryl R. Spidle
#332 Leonard W. Telfer	#376 Terrance R. Doogue	#420 David T. Roberts
#333 Barrie F. Hebb	#377 Garnet E. Wentzell	#421 Glen C. Brathwaite
#334 Gerald B. Boylan	#378 Austin E. Atkinson	#422 James B. Gillis
#335 John S. Dunning	#379 Fred C. Hutchinson	#423 David S. Thorne
#336 Duncan A. MacGregor	#380 L. Neil Flemming	#424 Keith T. White
#337 F. Wayne Miller *	#381 Thomas W. Smith *	#425 A. Thomas Swanson
#338 Reginald C. Lewis	#382 Ralph E. White	#426 Dennis A. Jones

#427	Gunter Bellach	#471	Donald C. Pugsley	#515	William E. Ross
#428	John L. Lyon	#472	Richard T. Nolan	#516	Kenneth M. Lord
#429	David E. Cushing	#473	Delphis F. Amirault	#517	John D. Conn
#430	Harry T. Ashcroft	#474	Arthur C. Backman	#518	David F. Lorimer
#431	Erwin R. Turner	#475	Norval S. Higgins	#519	Edward J. Chisholm
#432	Wayne D. Hardy	#476	Gilbert K. Wagner	#520	Rodney E. Humphreys
#433	Paul C. Stone	#477	James D. Bancroft	#521	Robert C. Becker
#434	George Babbage	#478	W.L. MacLellan	#522	Joseph R. Alcorn
#435	George R. Sellers	#479	George E. Frail	#523	David J. Whyte
#436	Stephen O. Vaughan	#480	Howard W. MacKay	#524	Ross M. Ward
#437	Lloyd K. Taylor	#481	Kirk T. Nutter	#525	Gerald D. Eisnor
#438	Clinton C. Garland	#482	Bruce E. Turner	#526	Paul J. Dugas
#439	Roderick K. MacInnis	#483	Robert J. Flinn	#527	S. Gregory Smith
#440	H.E. Garth Jenkins	#484	Francis J. MacDonald	#528	Robert R. Hope
#441	Robert Wentzell	#485	Peter J. Dunsworth	#529	James D. McNeil
#442	F.V. Clark	#486	J. Robert Cameron	#530	Nicholas W. Dearman
#443	Chris P. Masland	#487	Graham W. Langley	#531	Michael J. Astephen
#444	Richard Surette	#488	John F. More *	#532	James C. Banks
#445	L. Paul Zinck	#489	Robert A. Fox	#533	W. Gregory Verner
#446	Daniel Burke	#490	Howard R. Lumsden	#534	Shaun R. Stoddart
#447	Walter E. Jackson	#491	Frank L. Mason	#535	Lester R. Tingley
#448	Christopher J. Geddes *	#492	William W. Piggott	#536	Allan J. Owen
#449	Michael LeBlanc	#493	Donald R. Sutherland	#537	Ritchie F. MacInnis
#450	Keith H.W. Barrett	#494	James D. Gunn	#538	Michael Allison
#451	Gordon S.P. Isaacs	#495	Kenneth C. Cormier	#539	Horace R. Lovell
#452	James F. AuCoin *	#496	Brian E. Cutler	#540	M. Geoffrey Verner
#453	William D. Harnish	#497	Raymond M. MacKinnon	#541	David N. Turnbull
#454	Alan R. Eaton	#498	Leonard E. Landry	#542	M. Gary Wadden
#455	Garry S. Parker	#499	Robert A. MacLean	#543	V. Douglas MacLeod
#456	Peter A. Murray	#500	David E. Himmelman	#544	Carl K. Hartlen
#457	Robert S. Redden *	#501	Edward J. Cleveland *	#545	George E. Podetz
#458	William J. Probert	#502	Duncan R. MacDonald	#546	Derik R. DeWolfe
#459	Grant T. MacDonald	#503	P. Courtney Lewis	#547	R. Dale Castle
#460	N. Earle MacLean	#504	Russell V. MacKinnon	#548	Elizabeth V. Fraser
#461	R.E. Dease	#505	H. Kirk Hicks	#549	Ernest C. Blackburn
#462	J. Philip Vaughan	#506	James L. Phillips	#550	Cyril P. LeBlanc
#463	Fred S.L. Sheppard	#507	Steven W. Milligan	#551	Dennis M. Prendergast
#464	Clarence W. Pugsley	#508	Alan W. Comfort	#552	David H. Wedlock
#465	John D. Campbell *	#509	Paul G. Harvey	#553	John J. DeLorey
#466	John A. Waugh	#510	Michael E. Greene	#554	Dean A. Benedict
#467	Robert D. Fitzner	#511	Clive S. MacKeen	#555	Alexander E. MacLeod
#468	Roderick W. Coady	#512	D. Jerome MacEachern	#556	Peter A. Lohnes
#469	A. Bernard Chisholm	#513	Stewart R. Setchell	#557	Mitchell W. Brison
#470	Alan Macdonald	#514	Eric R. Whyte	#558	Simon E. AuCoin

#559 John W. Cunningham
 #560 Raymond V. Pottier
 #561 Stephen L. Rutledge
 #562 Kenneth M. Whalen
 #563 D. Allan Cyr
 #564 W. Bruce MacDonald
 #565 Allan C. MacCullough
 #566 Patrick D. Muise
 #567 S. Anderson DeCoste
 #568 Lawrence G. Miller
 #569 Bruce A. Lake
 #570 Bruce A. MacQuarrie
 #571 William S. Sterns
 #572 James A. Redden
 #573 Curtis C. Kimball
 #574 J. Edward Weaver
 #575 Michael P. McKenna
 #576 Michael H. Peters
 #577 Jerry L. Borden
 #578 David M. Alexander

#579 Glenn M. Crews
 #580 Edward G. Jeffrey
 #581 Gerald H. Bourbonniere
 #582 George B. Bruce
 #583 Kevin W. Munro
 #584 Glenn R. Myra
 #585 David A. Steeves
 #586 T.L. Stephen White
 #587 Valerie E. George
 #588 Michael S. Tanner
 #589 Wayne S. Mailman
 #590 Rebecca Ritchie
 #591 Terry A. MacGillivray
 #592 R. Grant McBurney
 #593 Darrell G. Creelman
 #594 Brian J. MacIntyre
 #595 Jeff Fee
 #596 Stephen Howard
 #597 Bruce E. Mahar
 #598 Thomas Giovannetti

#599 Frank Gillis
 #600 Robert Ashley
 #601 Kevin Brown
 #602 Stephen Wallace
 #603 H. James McIntosh
 #604 Walter Johnson
 #605 Allan P. Chisholm
 #606 Steven R. Keddy
 #607 Paul H. Slaunwhite
 #608 Alan Gallant
 #609 Eric Morse
 #610 Kevin Fogarty
 #611 Mark Macmillan
 #612 David Attwood
 #613 Kevin Lombard
 #614 Stevan J. Forbes
 #615 Mark J. Whynot
 #616 Bruce S. Hyson
 #617 Lyndon K. Crowe
 #618 J. Andrew Giles



REMINDERS



Members:

- ▶ *Don't forget to make your reservations at Pictou Lodge for this year's annual meeting and convention - October 17 - 19.*

Committee Chairs:

- ▶ *Start giving some thought to annual reports for the Fall 2002 issue of the "Surveyor".*

Outgoing Councillors:

- ▶ *Councillors for Zones 1, 4, 5 and 6 are finishing their 2-year terms this fall. Find individual(s) in your Zone interested in serving on Council. Those interested will need to provide the association office with a short bio and a photo for inclusion in the Fall 2002 issue of the "Surveyor".*