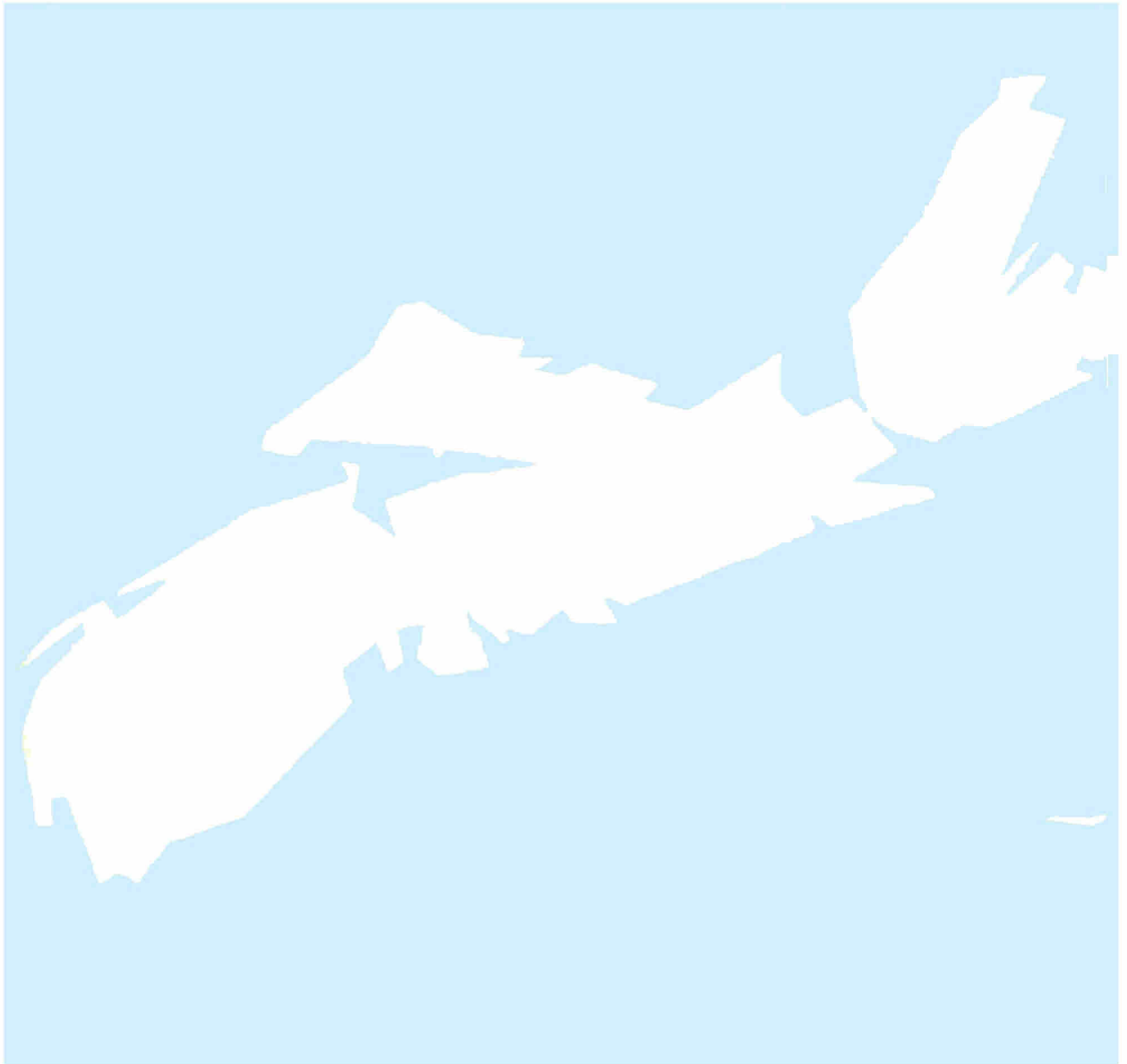


The NOVA SCOTIAN SURVEYOR

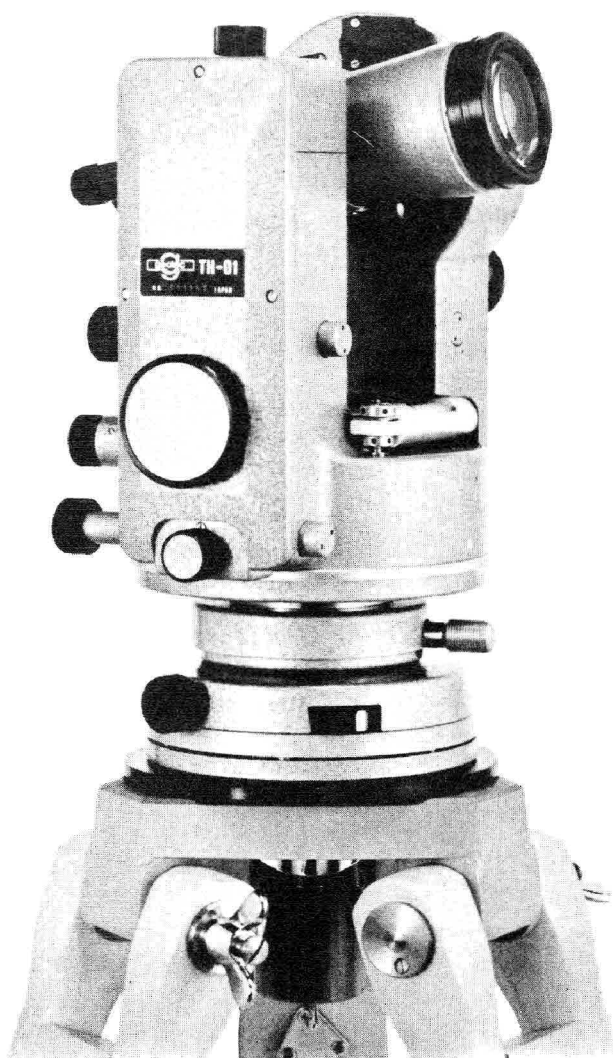


APRIL 1977

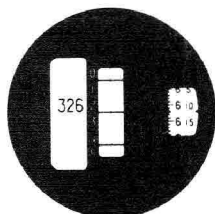
TH-01 THEODOLITE



353 3401



Horizontal Circle Reading



326° 20'
6' 12"
326° 26' 12"

- ☆ The readings of vertical and horizontal circles are the averages of two opposite sides of the circles. This circle reading optical system eliminates all eccentricity influence.
- ☆ Horizontal circle reading can be shifted to vertical circle reading, and vice versa, in one reading eyepiece. This simplifies the readings by eliminating unnecessary figures and graduations in the reading eyepiece.
- ☆ The upper head can be removed from the leveling head for use with traverse equipment. Rapid leveling can be made due to torsionally rigid ball base.
- ☆ The parallel-motion device with optical plummet facilitates the centering process.

SPECIFICATIONS

TELESCOPE

Type	Internal focussing, anallatic optics
Magnification power	28 X
Effective aperture	40mm
Minimum focus	1.6m
Stadia	Ratio 1:100; Additional constant 0

HORIZONTAL CIRCLE

Diameter	100mm
Graduation	20'
Graduation of microscale	1"

VERTICAL CIRCLE

Diameter	80mm
Graduation	20'
Graduation of microscale	1"

SENSITIVITIES OF SPIRIT LEVELS

Vertical circle coincidence level	30" per 2mm
Plate level	20" per 2mm
Circular level	10' per 2mm

VERTICAL CIRCLE COINCIDENCE LEVEL

Type	Manual
Range of coincidence level	± 5'

DIMENSIONS

	168mm X 183mm X 275mm
--	-----------------------

WEIGHT

	5.9 kg.
--	---------

TRIPOD

	353 7145 5/8" x 11" Wide Frame
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The NOVA SCOTIAN SURVEYOR

Published four times a year by

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS INCORPORATED

Keith P. AuCoin
President

Burton L. Cain
Editor

A.B. Grant
Executive-Secretary

Fred C. Hutchinson
Secretary-Treasurer

Address all communications to P.O. Box 1541, Halifax, Nova Scotia

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Vol.34

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No.86



I'M "NUMBER ONE"

** C O N T E N T S **

Views, expressed in articles appearing in this publication, are those of the authors and not necessarily those of the Association.

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* * * ALLISON B. (AL) GRANT, N.S.L.S. * * *

EXECUTIVE SECRETARY

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS



Born in New Glasgow some 50 odd years ago, Al grew up and received his early education in that community. After a term of military service during World War II, in which he was first introduced to the field of surveying, Al furthered his studies under Major James A.H. Church and upon completion of his course, stayed on as the Major's first Assistant Instructor.

He was also the first graduate from the Nova Scotia Land Survey Institute to be employed by the Topographical Surveys Division of the Federal Department of Mines and Technical Surveys. On occasion, he fondly reminisces about the pack trails he took in the Yukon and Western Mountains, as well as the part he played under A. C. Tuttle and Sam Gamble

in helping to develop the use of helicopters and electronic survey devices over this type of terrain.

After a short term on loan to the Hydrographic Service and the Province of New Brunswick, he transferred to the Ocean Circulation Group of the Bedford Institute of Oceanography. Here his primary interests were directed toward accurate navigational systems and in addition to this, he found time to co-author two series of scientific ocean atlases and several current-meter data reports. During the now famous "Hudson '70" circumnavigation of the Western Hemisphere, from Halifax to Antarctica, Al was supervisor of the shipborn computer operations and satellite navigational equipment.

He retired from the Federal Government in 1970 and after spending four years in private practice in Dartmouth, he worked for approximately one year at quasi legal-surveying affairs for the Nova Scotia Department of Lands and Forests.

Since his return to Nova Scotia, Al has been very active and interested in the affairs of the Association. Several years ago he served as Chairman of the Private Practice Committee and more recently as Councillor for Halifax County. During his term as Councillor, he served on both the Complaints and Discipline Committees of the Association.

Effective January 1, 1977, Al was appointed Executive Secretary of the Association. He brings with him an extensive level of experience in the field of surveying and it is anticipated that his professional attitude will lend a considerable degree of organization and guidance to the operation of the Association's Business Office. To date, he has partially reorganized and updated the affairs of the Association Office and presently, his daily routine usually finds him in the office from 8:30 to 12:30, five days a week.

As Al embarks on this so-called second career, we extend our sincere best wishes to him and his lovely wife, Diana. Al and Diana are presently residing in their newly acquired home in north end Dartmouth.

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS
REVISED SLATE OF OFFICERS 1977-78

EXECUTIVE COMMITTEE

PRESIDENT.....Keith P. AuCoin	P. O. Box 1046, Windsor, N. S.	0-424-6695 H-798-2963
VICE-PRESIDENT.....Murray J. Banks	58 Swanton Drive, Dartmouth, N. S.	0-424-7638 H-434-8863
SECRETARY-TREASURER....Fred C. Hutchinson	149 Amaranth Crescent, Dartmouth, N. S.	0-435-0112 H-434-4659
PAST PRESIDENT.....Ivan P. Macdonald	39 Doull Avenue, Halifax, N. S.	0-835-9955 H-477-1930

COUNCILLORS

HALIFAX CITY.....*Stuart W. Cameron	21 Parmbelle Lane, Halifax, N. S.	0-426-7665 H-443-3133
**Fred W. Roberts	78 Russell Street, Dartmouth, N. S.	0-426-6965 H-469-7227
HALIFAX COUNTY.....*D. Lee Johnston	97 Amaranth Crescent, Dartmouth, N. S.	0-424-7638 H-434-2078
**J. Gary Glenn	P. O. Box 905, Bedford, N. S.	0-835-9955 H-861-3998
WESTERN NOVA SCOTIA...*Brian D. Peel	R. R. #3, Waterville, Kings Co., N. S.	H-538-9826
**Errol B. Hebb	P. O. Box 385, Bridgewater, N. S.	0-543-3915 H-543-4803
EASTERN NOVA SCOTIA...*David T. Roberts	P. O. Box 300, Parrsborough, N. S.	0-254-3134 H-667-2017
**J. Edward Hanifen	R. R. No. 1, Guysborough, N. S.	0-533-3417 H-533-2163
CAPE BRETON.....*Athol C. Grant	P. O. Box 412, Baddeck, Victoria Co., N. S.	0-295-2300 H-295-2079
**Wayne D. Hardy	R. R. No. 2, Myra Road, Sydney, N. S.	0-539-4324 H-562-3528
COUNCILLORS-AT-LARGE..*Marcellin S. Chiasson	17 Birchwood Court, Port Hawkesbury, N.S.	0-625-0580 H-625-1811
**Roy A. Dunbrack	19 Downs Avenue, Halifax, N. S.	0-455-1537 H-477-0404

* Term ends November 1977

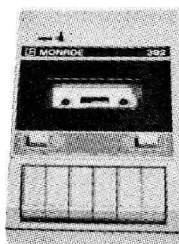
** Term ends November 1978

O - Office
H - Home

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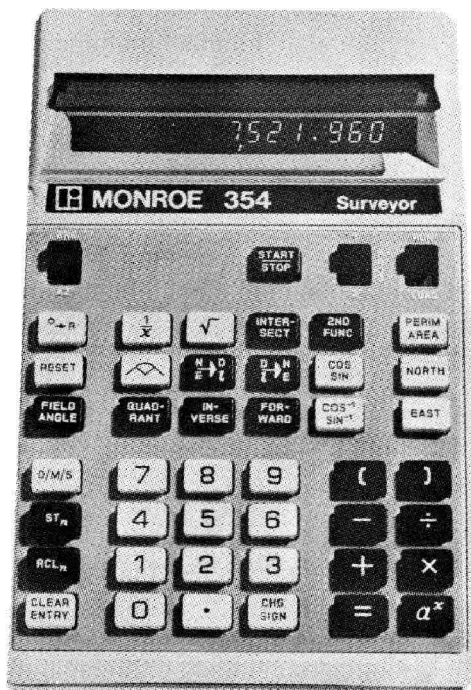


The Monroe Alpha 325 is more powerful and easier to use than any other mid-priced desktop computer in the world because:

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- Programs and data are stored on a tape cassette.
- By itself, the Alpha 325 holds 416 program steps plus 12 data registers.
- All arithmetic operations are performed algebraically, just as they're written on paper. Plus parentheses four levels deep.
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The display is big and bright. It tells you about angles in degrees, minutes, and seconds—in quadrants or azimuths.

And on those rainy days? The Micro Surveyor is a draftsman's dream. Helping with subdivision layouts, cut and fill, and every other type of calculation you could get into. And, because it's so compact, the Micro Surveyor is right at your fingertips on the drafting table.

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

TWENTY-SIXTH ANNUAL MEETING

CHATEAU HALIFAX, HALIFAX, N. S.

NOVEMBER 18, 19, 20, 1976

OFFICIAL OPENING

President Ivan Macdonald called the Twenty-sixth Annual Meeting to order and introduced the Honourable Gerald Regan, Premier of Nova Scotia, to officially open the meeting.

Premier Regan expressed his pleasure in having the privilege of opening the Annual Meeting of our Association. He then offered our Association his congratulations and a word of advice on the importance of informing the public of our role.

"I believe that your Association is not only doing an excellent job but becoming more and more relevant to the society in times in which we live. I wanted the opportunity to pass my congratulations on to you. I think that the Association is not only very important today and, being very well conducted, but I think that you are doing a better job than perhaps in years gone by of telling your story to the public of Nova Scotia and, indeed, in other jurisdictions where similar progress has been made.

If you do a job you should make sure that the job is well known to the public. I think, that while progress has been made in that direction, it is very important for your organization to continue to have your officers and other spokesmen seek opportunities (through television or otherwise) to tell the public of the role of the land surveyor and how our system really would become totally chaotic in relation to all types of land developments if it wasn't for the existence of a highly skilled profession such as yours."

Premier Regan then spoke to us as a "group keenly interested in the progress of the economic development of our province" on the kind of province we want and where our opportunities lie in relation to development.

"It is important that it be recognized that we, as a seaside province, to a greater degree than other parts of Canada are dependent upon how international market conditions affect our development and that means we have been going through a difficult period for the past two years with the situation unsettled as it has been following the increases in oil in the European markets and in the United States market. When those markets start to settle down, when the economy does start on an upswing, we will find another good spurt of development in Nova Scotia and we should be equipped to deal with that development when it comes. Your industry, your profession, will play a very key role in that in continuing to build a sort of province in which we improve job opportunities, while retaining basically the way of life that we, in Nova Scotia, think is somewhat unique but highly desirable."

OPENING OF EXHIBITS

President Macdonald introduced the Exhibitors as follows and stated that the Exhibitors add a great deal towards the meeting.

AGAtronics Limited
Atlantic Air Survey Limited
Hewlett Packard (Canada) Limited
The Hughes Owens Company Limited
Land Registration and Information Service
Maritime Computers Limited
Maritime Resource Management Service
Metric Commission Canada

Monroe The Calculator Company
 Norman Wade Company Limited
 Nova Scotia Department of Lands and Forests
 Perma Engineering Limited
 Sharp Electronics Canada Limited
 Tellurometer Canada Limited
 Westward Industries Limited

INTRODUCTION OF GUESTS

President Macdonald introduced the visitors and guests, as follows, and read a number of letters from the ones who were unable to attend:

John Covert	- Representing the Surveyor General of Canada
Llewellyn Schofield	- Representing Massachusetts Association of Land Surveyors and Civil Engineers
John Deyholos	- President, Alberta Land Surveyors' Association
Aubrey Reimer	- President, Saskatchewan Land Surveyors' Association
John Barber	- President, Association of Ontario Land Surveyors
Jean-Marie Chastenay	- President, Ordre des Arpenteurs - Geometres due Quebec
Robert A. Miller	- President, Association of New Brunswick Land Surveyors
Brian Potter	- Secretary-Treasurer, Association of Prince Edward Island Land Surveyors
T. John Power	- President, Association of Newfoundland Land Surveyors
Leo Sayn-Wittgenstein	- President, Canadian Institute of Surveying
Charlie Moncleaf	- Massachusetts Association of Land Surveyors and Civil Engineers
Frank Shortall	- Association of Newfoundland Land Surveyors.

KEYNOTE ADDRESS

President Macdonald then introduced Mr. Paul C. Boire, Executive Director of the Metric Commission, who spoke on the Metric Conversion Update. A summary of Mr. Boire's keynote address was printed in the January 1977 issue of The Nova Scotian Surveyor.

Keith AuCoin, on behalf of the President and members of our Association thanked Mr. Boire and as a token of our appreciation presented him with a set of historic maps of Nova Scotia, which were prepared by one of our Honourary Members, Mr. George Bates.

The President called on the Secretary-Treasurer, Mr. F. C. Hutchinson, to read the minutes of the Twenty-Fifth Annual Meeting. It was moved by F. C. Hutchinson and seconded by George T. Bates that the minutes of the Twenty-Fifth Annual Meeting be adopted as written and distributed. Motion carried.

SECRETARY-TREASURER'S REPORT AND FINANCIAL STATEMENT - F. C. Hutchinson

A very busy schedule was set by your elected representatives this year. Their goal was to increase the efficiency with which the Association should be managed and to increase the professional image of its members.

Several Regional meetings were held throughout the province and the turnout was not always favourable.

There were seven Council meetings this year held on the following dates:- November 15, 1975; December 6, 1975; January 17, 1976; March 6, 1976; April 9, 1976; June 26, 1976 and October 16, 1976.

There was one Workshop held on February 14, 1976.

We held three Council Hearings with regard to the suspension of membership. The first two on March 5, 1976, with an appeal granted and reviewed on April 9, 1976. The third hearing was scheduled for August 13, 1976, but was postponed until September 10, 1976.

The membership statistics for the year are as follows:

Regular Members	232
Non-Practicing	22
Associate Members	3
Junior Members	16
Life Members	13
Honourary Members	7
Arrears	<u>24</u>
Total	<u>317.</u>

One of the major accomplishments this year was the approval by the Governor-in-Council of the increase in our membership fees to \$150.00 per year on June 20, 1976. There are presently 24 members in arrears and they shall be notified by registered mail, following the Annual Meeting, that they are no longer members in good standing and, therefore, not entitled to practice land surveying for gain.

Please note that the Financial Statement is for the period ending on September 30, 1976 and by that date a total of 159 members had paid the additional \$100 fees required. (For Financial Statement see Page 12).

It was moved by Fred Hutchinson and seconded by George Bates that the Financial Statement as presented and distributed to the meeting be adopted. Vote unanimous.

PRESENTATION TO GARNET CLARKE

President Macdonald introduced Garnet Clarke to the members stating that he had worked for the Association for a number of years and retired last year without too much fan fair, because he thought he could sneak away in his quiet way too. This year three of us tried to run the organization and we were having a tough time with what Garnet was doing mostly on his own. We even had to go back to Garnet and still have him help us out. Garnet, for your contribution to our Association as past Secretary-Treasurer, I want you to have this plaque as our appreciation for your help, which reads as follows:

"Presented to Garnet Clarke as a token of appreciation from the members and Council of the Association of Nova Scotia Land Surveyors for the services he has conscientiously rendered as Secretary-Treasurer during the years 1972 to 1975. Thank you, Garnet. Signed and sealed at Halifax, Nova Scotia, the 19th day of November, 1976, Ivan Macdonald and Fred Hutchinson."

Garnet thanked the members and stated that he was glad to have had the opportunity to do what he could for the Association.

BOARD OF EXAMINERS - J. F. Archibald, *Secretary*; A. F. Chisholm, *Chairman*

The members of the Board of Examiners for the period ending November 15, 1976, were as follows:

Prof. A. F. Chisholm, P. Eng., N.S.L.S., Chairman

Ivan P. Macdonald, D.L.S., N.S.L.S., President, Association of Nova Scotia Land Surveyors

H. B. Robertson, N.S.L.S., representing the Deputy Minister, Department of Lands and Forests

A. T. Swanson, P. Eng., N.S.L.S., appointee of the Association of Professional Engineers

Roy A. Dunbrack, N.S.L.S.

J. F. Archibald, N.S.L.S.

The Board held four regular meetings during the past year.

Examinations were held on December 15th, 16th and 17th of 1975, and on May 17th, 18th and 19th of 1976, with some 85 candidates writing one or more examinations. The success rates for intermediate candidates were 74%, 63% for Final Part I's and 68% for the Final Part II's.

Beginning with the 1976 December examinations, the pass mark for the legal exams has been raised to 65% for the first try and 70% for Supplementals.

The following five candidates having completed the required examinations, served the required surveyor-in-training periods to the satisfaction of the Board, are to be presented with their Nova Scotia Land Surveyors' Certificates on November 20, 1976:

<u>Name</u>	<u>Residence</u>	<u>Date Approved</u>
Mr. Walter E. Jackson	Cole Harbour, Halifax County	Feb. 5, 1976
Mr. Christopher J. Geddes	Halifax	April 28, 1976
Mr. Michael J. LeBlanc	Whitehorse, Yukon	April 28, 1976
Mr. Keith H. W. Barrett	Halifax	Aug. 16, 1976
Mr. Gordon S. P. Isaacs	Aylmer, Quebec	Nov. 4, 1976

DEPARTMENT OF SURVEYING ENGINEERING UNIVERSITY OF NEW BRUNSWICK

**Bachelor of Science in Engineering
Master of Science in Engineering
Master of Engineering
Doctor of Philosophy**

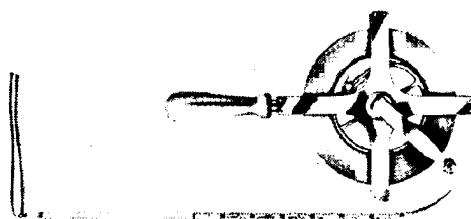
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A. F. CHISHOLM'S REMARKS TO 26TH ANNUAL MEETING

Another year has gone by, more meetings of the Board of Examiners have been held, more people have qualified as Nova Scotia Land Surveyors, more inquiries have been received from those who want, for one reason or another to become Land Surveyors. I wish to acknowledge the contributions made by the other members of the Board who are in alphabetical order:

Joe Archibald, Joe has, for many years acted as Secretary of the Board. He is an appointee of the Provincial Government.

Roy Dunbrack now completing a fair number of years of service, first as President of the Association and then as an Association appointee.

Ivan Macdonald, who just now completes his first year on the Board automatically being a member as our President.

Bert Robertson, Bert is the second member of the Board appointed by the Provincial Government and who has served ever since the inception of the Board in 1959.

Tom Swanson is another "new" member of the Board, being the appointee of A.P.E.N.S.

It has been a real experience working with these, five fine gentlemen; those of you who know them will realize that they generally tend to be perfectionists wishing to be absolutely sure of all the facts before they will make any move toward a decision, in fact some of our meetings last through the evening and past the midnight hour. Seriously I want to thank them one and all on your behalf for their contribution to the work of the Board of Examiners.

This year has been the beginning of the presentations of technical reports to the Board. First, we receive a lot on the topic the candidate proposes to cover, often with chapter headings and later, of course, the finished product. Only sometime it is not "finished". It is interesting that an individual who goes through school and then high school, the Survey Institute and has been exposed to a few years of adulthood and is looking forward to making Surveying his lifework must realize that the technical report is one more hurdle to overcome before he attains that ambition and stands before us, a brand new member duly licensed to practice. Even after all that exposure and experience and with a substantial goal, several of the candidates didn't bother to check words for misspellings, proof read for omitted algebraic or arithmetical signs, were satisfied to make corrections to the report in pen or pencil, seemingly were indifferent to grammatical errors. I am not suggesting that all of us are paragons, examples of exactitude, always perfect or even right in the way we spell or use words and put sentences together, but if we are presenting a document which must be approved by our peers in order to be accepted then surely we would attempt to have it letter and word perfect for presentation. You, as the supervising surveyor, to whom the surveyor-in-training is article must accept some of the responsibility - if you cannot help the candidate with spelling and grammar then send him to someone who can, but believe me, for a candidate to submit a technical report less than perfect in the mechanical details of spelling, grammar, typing, sentence construction is irresponsible and insulting to the Board.

Seems that I tend to run off at the mouth when you give me an opportunity to get up here, in a little lighter mood and certainly not in an effort to display the correct use of words but in an effort to ridicule some of the useless word combinations we see in the jargon used by some bureaucrats and technocrats, I suggest the following nonsense about your Board. You can be sure that the overall management capability of your Board is tempered by the goal-directed transitional interface of its concern for the ongoing quantitative mix of the candidates as well as for the systematized reciprocal interface.

It was moved by Art Chisholm and seconded by Garnet Clarke that the Board of Examiners' Report be adopted. Motion carried.

T0: The President and Members of
The Association of Nova Scotia Land Surveyors

November 15, 1976

I have compiled the Statement of Financial Position as at September 30, 1976 and the Statement of Revenue and Expenses for the year then ended. Comparative results of the previous year ended September 30, 1975 are shown along with the 1976 "Revised" Budget. My examination included an extensive review of the accounting procedures and such tests of the accounting records and other supporting evidence as I considered necessary in the circumstances.

In my opinion, the accompanying Statement of Financial Position and the Statement of Revenue and Expenses presents fairly the financial position of the Association as at September 30, 1976, and the results of its operations for the year then ended. With consideration being given to the accounting procedures followed in the past for recording membership dues, and the explanation given, the Statements are in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding years.

A. A. MacMillan
A. A. MacMillan, R.I.A.

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

STATEMENT OF FINANCIAL POSITION

AS AT SEPTEMBER 30

APPENDIX "A"

	<u>1976</u>	<u>1975</u>
CURRENT ASSETS		
Cash in bank	\$ 7,735	\$ 1,102
Working fund advance (1976 Convention)	500	-
Accounts receivable	28	-
Accrued interest receivable	<u>690</u>	<u>-</u>
	<u>8,953</u>	<u>1,102</u>
CURRENT LIABILITIES		
Accounts payable	<u>1,182</u>	<u>-</u>
WORKING CAPITAL	7,771	1,102
INVESTMENTS (APPENDIX "C")	<u>2,600</u>	<u>2,800</u>
TOTAL NET WORTH	<u>\$10,371</u>	<u>\$ 3,902</u>
SURPLUS		
Opening Balance	\$ 3,902	\$10,339
Net Revenue (Expense)	<u>6,469</u>	<u>(6,437)</u>
Closing Balance	<u>\$10,371</u>	<u>\$ 3,902</u>

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

STATEMENT OF REVENUE AND EXPENSES

FOR THE FISCAL YEAR ENDED SEPTEMBER 30

APPENDIX "B"

	Actual		Budget
	1976	1975	1976
REVENUE			
Membership dues	\$30,224	\$13,287	\$32,484
The Nova Scotian Surveyor	1,426	1,198	1,670
25th Annual Meeting	1,911	4,893	1,000
Education	3,636	3,164	3,527
Directory advertising	437	625	-
Interest on investments	922	623	350
Miscellaneous	834	337	1,732
	<u>39,390</u>	<u>24,127</u>	<u>40,763</u>
EXPENSES			
Administration			
Executive	2,758	3,640	3,751
Discipline Committee	1,139	83	2,418
Board of Examiners	2,248	3,503	3,500
Council & Regional Meetings	2,983	1,242	1,570
Annual Meeting	289	7,048	290
Office salary and fringe benefits	9,160	3,908	8,600
Office equipment and supplies	1,333	912	1,900
Office rent, telephone, postage, etc.	2,700	1,411	3,163
Reproduction	608	1,203	565
Miscellaneous	1,933	1,861	2,500
	<u>25,151</u>	<u>24,811</u>	<u>28,257</u>
Protection			
Salary review	37	-	87
Private Practice	355	587	751
	<u>392</u>	<u>587</u>	<u>838</u>
Communication			
The Nova Scotian Surveyor	1,755	2,254	2,300
Liaison	100	419	200
	<u>1,855</u>	<u>2,673</u>	<u>2,500</u>
Survey Standards			
Education	984	612	2,050
Regulations	606	412	1,500
	<u>1,590</u>	<u>1,024</u>	<u>3,550</u>
Public Service			
Legislation	2,923	1,235	4,000
Publicity	591	234	400
Complaints	419	-	100
	<u>3,933</u>	<u>1,469</u>	<u>4,500</u>
Total Expenses	<u>32,921</u>	<u>30,564</u>	<u>39,645</u>
NET REVENUE (EXPENSE)	<u>\$ 6,469</u>	<u>(\$ 6,437)</u>	<u>\$ 1,118</u>

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

STATEMENT OF INVESTMENTS

AS AT SEPTEMBER 30, 1976

APPENDIX "C"

<u>Cert. No.</u>	<u>Name of Security</u>	<u>Rate</u>	<u>Term</u>	<u>Date of Maturity</u>	<u>Amount</u>
03-10032	N. S. Savings & Loan	8%	5 years	Sept. 29/77	\$ 200
03-11462	N. S. Savings & Loan	8 1/2%	5 years	July 1/78	200
03-12143	N. S. Savings & Loan	9%	5 years	Oct. 1/78	1,000
AC00258	N. S. Savings & Loan	11%	5 years	Nov. 18/79	1,000
AC01034	N. S. Savings & Loan	9%	5 years	Mar. 1/80	<u>200</u>
					<u>\$ 2,600</u>

Respectfully submitted,

*F. C. Hutchinson*F. C. Hutchinson, N. S. L. S.
Secretary-Treasurer.

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NOVA SCOTIA LAND SURVEY INSTITUTE - Phil Milo

Since we occupied the new building as reported last year, our most notable changes have been instaffing. The Survey Department now has six instructors of which three came to us this fall. The Mapping Department also has six with the introduction of a new course in Community Planning which started on Monday of this week. The total staff at the Institute is now 20.

Enrolment is one hundred thirteen at present with fifty-eight in the two year survey program. Twenty-seven will (hopefully) be graduating from the second year program in May of 1977.

I am taking this opportunity to remind you that good times for interviews are late January and through February. Naturally, where only one or two students are involved, they will be free to come to you, but for larger groups I suspect that it is more convenient for you to come to Lawrencetown. Space will be provided and we can set up an interview schedule to your specifications.

While on the subject of employment, I would like to raise two items of considerable concern to the instructors: (1) We are writing fewer letters on graduates than ever before, although we have more students than ever before. We believe that there is a great danger that the Institute will be unfairly blamed for the poor showing of some when they become employees. A person who flunks out of the drafting course may get a job as an instrument person on the strength of the black leather jacket with the big yellow letters! Please check with us on any one you are considering for employment if your own knowledge of him or her is not first hand; (2) Feedback - at present, the only knowledge we have about a student's performance in industry is based on comments of the first year students upon their return to a second year program. I request that you who hire our students take a few minutes in the fall to write to us and tell us what they should have known but didn't. Where these apply in a general way, we shall do our utmost to bring them into the program.

Short courses and seminars are an ongoing concern of the Institute and we welcome suggestions of areas of interest. Mr. Doig, Principal, will be glad to receive same, particularly where it is shown to be a topic which would bring in a reasonable group.

The Department of Education continues to give us excellent support. Our conversion to metric is keeping pace with industry. I should add, in this regard, that we have encountered one problem in metrication. This is in the purchase of tapes. So far we have only come up with the varieties of 50 metre tapes.

- i) Graduated to millimetres throughout its length, with painted surface - which seems extravagant;
- ii) Graduated in metres, babbett markings, extra metre before zero graduated in decimetres - which is quite useless.

We shall continue to include instruction in the English measure, as well as Gunter's chain; as we have included metric in the past. I would suggest that it will be some time yet before the rural client no longer buys his fencing in forty rod or eighty rod rolls.

It was moved by Phil Milo and seconded by Fred Hutchinson that the Nova Scotia Land Survey Institute Report be adopted. Motion carried.

Nova Scotia Land Survey Institute

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PROVINCE OF NOVA SCOTIA

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DISCIPLINE COMMITTEE - Keith AuCoin

The year 1975-76 has been a very busy one for the Association's Discipline Committee. Two cases were forwarded by the Complaints Committee to the Discipline Committee for consideration and possible action.

The first case involved a complaint by a member of the Association against a fellow member, involving tendifferent survey plans. An investigative hearing was called by the Discipline Committee for January 8, 1976 and the defendant, W. Stewart Laurence, although he was advised of the hearing, failed to attend the meeting or be represented by counsel. As a result of the investigation it was moved, seconded and passed unanimously that, "this Committee report to Council that it has investigated the complaint against W. Stewart Laurence and reports that, in the Committee's opinion, Stewart Laurence is guilty of gross negligence and incompetence as defined in Section 5 (1)(a) of the Nova Scotia Land Surveyors Act." By letter dated January 16, 1976, the Vice-Chairman of the Discipline Committee advised the President of the Committee's findings and in accordance with Section 27 (2)(L) of the By-laws of the Nova Scotia Land Surveyors Act, the case was officially turned over to Council.

The second case involved complaints from two members of the public sector against a member of our Association, namely Arthur E. Briggs. An investigative hearing of the Discipline Committee was duly called and held in Halifax on April 9, 1976 with Mr. Briggs, his solicitor, both complaintants and all members of the Committee being present at that time. Because of the detail involved in the investigation, the hearing was adjourned until June 3, 1976 at which time the Committee considered all the evidence presented to date, together with a written summation from Mr. Briggs' solicitor. As a result of the investigation it was moved, seconded and passed unanimously that "this Committee report to Council that it has investigated the complaints made by John Morykot on behalf of the Town of Port Hawkesbury and John James Campbell, against Arthur E. Briggs and reports that, in the Committee's opinion, Arthur E. Briggs is guilty of gross negligence and incompetence, as defined in Section 5 (1) (a) of the Nova Scotia Land Surveyors Act." The President of the Association was then officially advised by letter dated June 16, 1976, that in accordance with Section 27 (2)(L) of the By-laws of the Nova Scotia Land Surveyors Act, the case was being turned over to Council for their consideration.

In summation, I would like to express my appreciation to the members of the Discipline Committee who gave freely of their time in an effort to assist on this very important Committee.

It was moved by Keith AuCoin and seconded by Ed Rice that the Discipline Committee Report be adopted. Motion carried.

SCRUTINEER'S REPORT - F. C. Hutchinson

Two hundred and sixty-eight ballots were mailed along with notice of the Annual Meeting. Thirty individuals that had not paid the additional \$100.00 fees did not receive a ballot but did get the notice of the meeting along with a list of the nominees.

There were 148 ballots returned, representing 55% of the total vote.

The following Executive is a result of the election:

President	K. P. AuCoin
Vice-President	M. J. Banks
Secretary-Treasurer	F. C. Hutchinson
Councillors:	
Halifax City	F. W. Roberts
Halifax County	J. G. Glenn
Western Nova Scotia	E. B. Hebb
Eastern Nova Scotia	J. E. Hanifen
Cape Breton area	W. D. Hardy
Councillor-at-Large	R. A. Dunbrack.

It was moved by Fred Hutchinson and seconded by John MacInnis that the Scrutineer's Report be adopted. Motion carried.

COMMITTEE REPORTS:

PUBLIC SERVICE DIVISION - J. F. DOIG, CHAIRMAN

LEGISLATIVE COMMITTEE - F. W. Roberts

At the Annual Meeting last year a motion was passed which in effect empowered the Legislative Committee to make such changes in Section 18 of the proposed Act as were necessary to achieve a resolution of the difficulties which that Section presented to members of the Association of Professional Engineers. We were able to make changes acceptable to the Engineers, without compromising the intent of the proposed Act, but were not able to finalize these changes until March 31 this year. At that time we received a letter from APENS supporting our proposed Act, and a copy of that letter was forwarded to Mr. Sandy Cameron, then Minister of Lands and Forests. Unfortunately, for us the government review of the Act, necessary for finalization of the Bill, could not be completed in time for Mr. Cameron to present the Act at the last sitting of the House. The Minister has personally expressed his regrets to me in this regard.

I would like to make a plug here for the Surveyor-Engineer Liaison Committee as it was invaluable to us in our lengthy and sometimes testy discussions with the members of APENS regarding the changes to this Act. It certainly underscores the necessity and propriety of this Committee.

Perhaps on a more positive note, we can advise you that in our latest conversation with Mr. Cameron, as recent as the 3rd of this month, we are encouraged by his assurance the Act is now ready to go to the next sitting of the House, and he has offered his continued assistance to us in any way. As you are no doubt aware, Mr. Cameron has been moved to the Development portfolio and has been replaced by Mr. Vincent MacLean as Minister of Lands and Forests. Although it is unlikely that the change of Ministers will seriously affect the progress of the Act at this time, we have nevertheless introduced the matter to the new Minister and formally requested that he present the Act to the next sitting of the House. At this writing we have not received an answer from the Minister. That, basically, is our position with respect to the new Act.

This Committee, in the next year whether it is comprised of the same members or others, will be required to direct its attention to the completion of Regulations, which will be necessary under the new Act. Considerable work has already been done by others with respect to new regulations, but incumbent upon the Legislative Committee in compliance with its terms of reference is the review and recommendation to Council of new or revised legislation. This duty relates also to legislation originating outside our Association as well as that developed by ourselves. There are several areas of concentration, but the most demanding at this point in time will no doubt be the legislation related to the proposed Land Titles Act, Boundaries Act and the incidental amendments to existing legislation deriving therefrom.

A word of personal thanks to the dedicated and hard working members of the Committee and also to any others who have been helpful to us in any way over the past year.

It was moved by Fred Roberts and seconded by Roy Dunbrack that the Legislative Committee Report be adopted. Motion carried.

PUBLICITY COMMITTEE - W. C. Rayworth

The Publicity Committee of 1976 was comprised of Fred Hutchinson, Ron Dearman, Marcellin Chiasson and myself.

The Publicity Committee has had four meetings this year. We have completed preliminary work on some projects and we are looking forward to a more active year ahead. Publicity projects require careful preparation and full approval by Council before presentation to the public.

The Committee feels that the major job of public relations must be done by all members in their day to day contact with the public. Members must take the time to better acquaint their clients about what they are doing and why.

Good relations between surveyor and client can improve our image of the public along with any newspaper, radio and T.V. coverage we can manage. If media coverage by the Association makes a statement and a direct personal contact or encounter with a surveyor proves different the public will eventually disbelieve all we say.

Good public relations begins with good client relationships and Association involvement. We are a Committee who will attempt to further this work in 1977.

It was moved by Walter Rayworth and seconded by Ed Rice that the Publicity Committee Report be adopted. Motion carried.

COMPLAINTS COMMITTEE - F. C. Hutchinson

Our first meeting was held on January 6, 1976, at which time terms of reference were discussed and some form of correspondence was to be sent to all persons involved in existing complaints. Subsequent meetings were held on February 25, April 13, June 2, July 8, September 1, September 13 and November 11.

The Committee, to date, has handled 22 complaints and 130 letters of correspondence have been sent to concerned parties. This year we have closed 15 complaints, sent 3 to the Discipline Committee and still have 4 more to resolve.

We have received very good cooperation and support, on the most part, from the surveyors involved and it should be noted that in many cases both the complainant and the surveyor have spent considerable time and effort to compile data for presentation to our Committee. Some individuals, however, have lodged a complaint without ever notifying the surveyor involved that a problem existed.

I urge you to assist the Committee whenever possible, respect its position as a mediator and trust its ability to arrive at the most reasonable decision within its authority.

Committee Members: - F. C. Hutchinson, Chairman
D. K. MacDonald
J. C. MacInnis
D. R. Hiltz
D. L. Parker.

It was moved by Fred Hutchinson and seconded by John MacInnis that the Complaints Committee Report be adopted. Motion carried.

nw
wade

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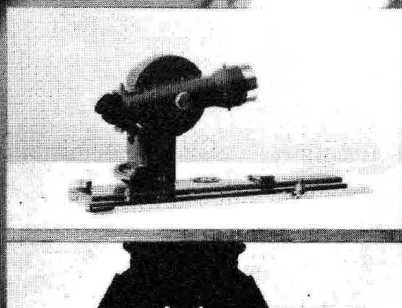
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COMMUNICATIONS DIVISION - K. P. AuCOIN, CHAIRMAN

THE NOVA SCOTIAN SURVEYOR - B. L. Cain

In the past year three issues of the Surveyor were produced, including the Annual Report. Due to a lack of material we were unable to produce a July issue and meet our objective of four issues.

The format of the Surveyor has not been changed in the past year except for the cover on the October issue, to reflect the metric theme of this Annual Meeting. I leave it to you to judge the content of the Surveyor.

At last count we had twelve advertizers in the Surveyor, bringing approximately \$400 revenue per issue. The cost of printing and mailing a 32-page issue, which is the number of pages we strive for, is approximately \$500.

We would be glad to consider any suggestion you have for changes which will improve the Surveyor.

I am optimistic in looking forward to the coming year. There are some regular contributions in the offing that will enhance the content of the Surveyor, and which I think you will find informative and interesting.

It was moved by Burt Cain and seconded by Phil Milo that the Nova Scotian Surveyor Report be adopted. Motion carried.

LIAISON COMMITTEE - D. K. MacDonald

The Liaison Committee functioned in the past year primarily as the Liaison Committee with APENS but its mandate does not restrict it to that particular liaison. It seemed to be the most pressing need.

We held six meetings during the course of the year. I was serving as Chairman of the Joint Committee and we alternate back and forth. Next year there will be an Engineer serving as Chairman of this Joint Committee.

We had a fairly successful year and our main item was, of course, the negotiations with the Engineers regarding the seeking of their approval for the new proposed Act and, as Fred Roberts has mentioned, there were several items which are of considerable concern to them. The majority of the time of the Liaison Committee was spent in discussing these points, debating various issues and occasionally coming up with some background material. In general, trying to pave the way for the Legislative Committee to obtain their approval.

The second item was connected somewhat, in that APENS wanted notification given to Engineers who were affected. That one portion of the Act, if passed as written, will mean that Engineers will have a specified time, after the passing of the Act, in which to join the Association of Nova Scotia Land Surveyors if they wish to retain the right to practice land surveying.

We were able to draft a letter that satisfied the Engineers. It will not be sent out until such time as the Act is in a more final form and we are certain as to the specific wording that will be used. We have, however, prepared it as far as it can be finalized. We have also, thanks to Bert Robertson and his staff, been able to compile, what we hope, a complete list of those Engineers who are in this category.

The third item which we discussed at some length was the advisability of sharing joint administrative facilities with APENS and, perhaps for that matter, with any of the other professional associations who maintain continuing permanent administrative office facilities. We feel that many of the functions and the clerical

work attached to running the Association, could be much more economically handled if we had some sort of a joint administrative facility in so far as the day to day administrative work goes. Also, the joint use of utilization of reproducing facilities and mailouts, this type of thing, could be handled much more economically.

Beyond that, there were a variety of minor items that were discussed and in most cases satisfactorily resolved. Minor points of friction, perhaps between individuals and APENS or in our Association with respect to the other Association.

By in large we have been very pleased with our meetings with the Engineers. They have very kindly allowed us to use their office facilities for our meetings and I would just like to close by thanking the fellow members of my Committee. We will be formulating a new Committee for next year but I believe that it is important that we continue this dialogue with the Engineers and I would suggest that there are also other groups or agencies, for that matter governmental agencies, that we would be well advised to have an increasing dialogue with. One group that comes to mind is the Barristers' Association because there are many areas there where it would be mutually beneficial if there was a greater awareness of the problems with which both groups are confronted, in regards to land transactions.

It was moved by Doug MacDonald and seconded by Ed Rice that the Liaison Committee Report be adopted. Motion carried.

MEMBERSHIP DIVISION - J. S. POPE, CHAIRMAN

SALARY REVIEW COMMITTEE - S. E. MacPhee

We will continue to conduct another salary review sometime in the new year if we are so instructed by the new Council.

It was moved by Stewart MacPhee and seconded by Doug MacDonald that the report of the Salary Review Committee be adopted. Motion carried.

PRIVATE PRACTICE COMMITTEE - J. C. MacLellan and Forbes Thompson

This past year our efforts were concentrated pretty well in revising the schedule of fees. Mr. Thompson did most of the work on that and will discuss it with you.

The bulk of the work carried out in preparation of the minimum scale of fees and charges was done in 1975. It was presented to Council in March of 1976 and was accepted by our Council at that time. It has since been published in the Nova Scotian Surveyor.

The other comment I might make is that the Schedule of Fees possibly needs updating from time to time. It is our intention to update this schedule periodically or on an annual basis as we may be directed.

It was moved by Forbes Thompson and seconded by Phil Milo that the Private Practice Committee Report be adopted.

Discussion;-

Tom Swanson - what consideration, if any, has the Private Practice Committee given to the new section of Combines Investigation Act and the effect that it may have on the Association or on any members?

Forbes Thompson - the Private Practice Committee has not, in fact, given any consideration to that. I assure you that when the rates come up for review that we will bear that in mind.

Roy Dunbrack - I was wondering if Tom would give us an idea as to what approach APENS might be taking towards the new Act?

Tom Swanson - basically what APENS has done is issue in their monthly newsletter, comments that they can no longer recommend the minimum schedule of fees but only that APENS are suggesting that their fees might be reasonable rates to discuss with clients. It is further stated that because of the present Act they feel that they are giving warning to anyone who may be using them but they should be able to justify them, within their own organization, as being reasonable rates of charge.

Lew Schofield - about two or three years ago the Department of Justice brought an action against the American Society of Civil Engineers, also the National Society of Professional Engineers. The American Society thought it advisable to revise their Code of Ethics and drop out any reference to bidding practices and also the publication of any sort of minimum fees. The various surveying societies throughout the United States have been cautioned to eliminate publication of these fees because of their fears of action by the Department of Justice. The National Society of Professional Engineers, however, has taken issue and the case has gone to Court. The initial findings were against the engineers, it is still to be heard by the United States Supreme Court. Action is also being brought against the lawyers and there is a famous case down in Virginia called the Gold Farm Case in which the lawyers were establishing closing fees in passing examination of titles and they have been restrained from doing this; so I would suggest that possibly somebody may be looking at what is happening south of the Border and they are going to impose similar restrictions on yourselves here.

Bill MacLellan - we in New Brunswick have been in touch with the people and went to the length of inviting one of them down to have a chat with us and we were told quite clearly that they consider such lists of minimum fees as tending to lessen competition unduly. The penalty for that in the Act is one million dollars' fine or five years in jail, or both. We have until January to amend our By-laws and we can't do that until our Annual Meeting. They graciously gave us that time.

Motion carried - one negative vote recorded.

PANEL DISCUSSION

The day closed with a panel discussion on: - "Guaranteed Title and Survey Accuracies", with Dave Roberts acting as Moderator.

Members of the panel were:

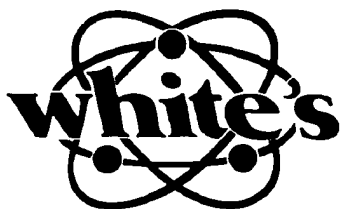
Cyril Carlin - Land Registration and Information Services

Dr. John McLaughlin - University of New Brunswick

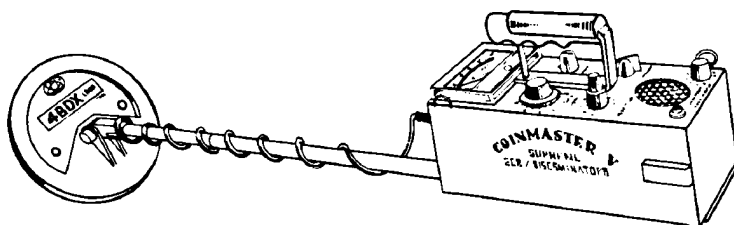
Doug MacDonald - Servant, Dunbrack, McKenzie and MacDonald Limited

Al Wallace - Wallace and MacDonald Surveys.

In their opening remarks Cyril Carlin informed us of Phase III of the L.R.I.S. program providing for the conversion of the present system of land registration to a computerized Land Titles System and John McLaughlin discussed a project being undertaken to investigate the accuracy specifications which should accompany any legislation dealing with the examinations and warranting of boundaries. Doug MacDonald and Al Wallace, as practising surveyors, expressed some of their views and concerns in implementing such a system.



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SATURDAY, NOVEMBER 20, 1976

SURVEY STANDARDS DIVISION - BERT ROBERTSON, CHAIRMAN

EDUCATION COMMITTEE REPORT - E. P. Rice

The Education Committee is presently composed of the following members: E. P. Rice, Chairman; Stewart MacPhee; Lloyd Taylor and Ronald Chisholm.

All of the members are from Antigonish with the exception of myself being from New Glasgow. The Committee members, coming from the same area, facilitates very much in the holding of meetings.

Since last November, six meetings were held in Antigonish, during which time the proposed Educational Regulations, under the Nova Scotia Land Surveyors Act, were reviewed and amended.

The purpose for this was to have the proposed Regulations agree with the intent of the motion passed at our 25th Annual Meeting. This motion gave approval to the objective of establishing education requirements for certification as a Nova Scotia Land Surveyor to be equivalent to the bachelor level of University graduation as approved by the Board of Examiners of our Association. To this end, we are of the opinion that the new proposed regulations meet these requirements.

These education regulations have been forwarded to the Legislative Committee for their perusal, reviewed at the September Regional Meeting of the Eastern area and, were given approval in principle by the Council during their October Meeting. It is now the intent of this Committee to present these Regulations to the other Regional Meetings, prior to the calling of a Special General Meeting for the purpose of gaining general membership approval.

The Committee has also worked towards the preparation of "Terms of Articles for Surveyor's-in-training". The purpose of this is to provide uniformity of articles for all students, as well as to act as a guide for the Master Surveyors. At present the Committee is seeking input for this matter from all members within our Association.

The third project we are undertaking is a continuing education program for our members. We are presently reviewing draft proposals being considered for Ontario Land Surveyors and also those from the American Congress of Surveying and Mapping. These are referred to as programs of Professional Development and Continuing Education. As support for this program, I would like to quote from the proposal for Ontario Land Surveyors:

"The registration requirements, to become an Ontario Land Surveyor, ensure that newly qualified Land Surveyors are competent to serve the public; however, with "man's knowledge doubling every five years" it may reasonably be argued that a professional's competence will soon seriously decline unless he undertakes a program of professional development and continuing education."

The objective of this Committee is to have a suitable program developed by the end of this fiscal year.

During the coming year we hope to provide several seminars for the membership. Due to the favourable response received from last year's seminars, the committee will be soliciting your support and participation as an aid to establishing this year's program. During this Convention our Committee will be providing questionnaires which we ask you to fill out and return to the Committee members present or to the Association Office, attention Education Committee. The Committee will then give consideration to the information compiled from the questionnaires when organizing future seminars.

It was moved by Ed Rice and seconded by Keith AuCoin that the Education Committee Report be adopted. Motion carried.

CANADIAN COUNCIL OF LAND SURVEYORS - E. P. Rice

In the early part of this year, letters patent were obtained from the Department of Consumer and Corporate Affairs in Ottawa, thus formally establishing the Canadian Council of Land Surveyors.

Since then the original member Directors, Messrs. Feetham, Blanchet and Pierce, have turned over the affairs of the Council to the new member Association. All Provincial Land Survey Associations and Corporations in Canada are now members with the exception of Prince Edward Island and, at their last Annual Meeting, they voted to become a member.

In March of this year, I was appointed by Council as your representative to C.C.L.S., with our President being the voting member. Together we attended the May meeting in Winnipeg held in conjunction with the C.I.S. Annual Meeting. The following officers were elected: Mr. J. Russell George, President from Saskatchewan, Mr. Maurice Gaudreault, Vice President from Quebec and Mr. David Crandall, Secretary-Treasurer from Manitoba. (Dave is also a Non Practicing Member of our Association).

Standing Committees have been established for Education, Reciprocity, Code of Ethics, Liaison (to coordinate the affairs between the C.I.S. and C.C.L.S.) and a select committee on Competitive Bidding. These committees have become very active and results from their efforts will be seen in the not too distant future.

The Education Committee has been busy gathering and compiling the various requirements and standards from all the Provincial Associations across the country. The ultimate goal is to bring the education requirements for certification as a Land Surveyor to a uniform baccalaureate level across Canada.

Reciprocity, of course, will go hand in hand with equalization of our educational program and will be achieved once these standards become uniform across the country. It was the general consensus, at the October meeting in Toronto, that even with reciprocity, one would still be required to write the legal exams for whichever province he so choose to work in. At our last meeting this Committee was made a part of the Education Committee.

A draft format of a National Code of Ethics has been prepared and will be passed on to our Legislative Committee for comments. We have been asked to submit our comments back to the C.C.L.S. executive and committee by January 1, 1977.

At the C.I.S. meeting in Winnipeg, a Memorandum of Agreement between the two organizations was signed by the two Presidents, whereby they have agreed to work together for the advancement of the surveying profession in Canada. To ensure this Agreement is enforced, a Liaison Committee was formed consisting of three members from each organization. It is also the purpose of this Committee to resolve any grey areas of dispute which may come up between the Canadian Council of Land Surveyors and the Canadian Institute of Surveying.

Approximately a year ago a select committee from the province of British Columbia, under their President, Mr. Vernon Goudal, was set up to prepare a case against competitive bidding by land surveyors. Work began immediately and was well underway, when, on July 1, 1976, Section 32 & 38 of the Combines Investigation Act were amended. This, in effect, eliminates the use of any schedule of minimum fees and encourages competitive bidding. The select committee then turned their attentions to the effects of the Combines Investigation Act on Cadastral Land Surveyors and submitted a report to our October meeting. In my opinion this report is very important to all land surveyors and I will ask the editor to publish it in the "Surveyor". For now, I would like to quote the last paragraph of the report:

"The Combines Investigation Act is probably the most serious piece of legislation enacted in many years towards all professions. It will take a great deal of thought and compromise to maintain our professional associations in the position that they have enjoyed over the past 100 years. It will need all of our efforts combined under the C.C.L.S. if we hope to survive."

During the past year it has been my privilege to serve as your representative with C.C.L.S. and to act on their Liaison and Resolution Committees. During the upcoming year, I will keep you informed of the workings and progress of C.C.L.S. through The Nova Scotian Surveyor and through regular reports to your Council.

It was moved by Ed Rice and seconded by Doug MacDonald that the Canadian Council of Land Surveyors' Report be adopted. Motion carried.

REGULATIONS COMMITTEE - David C. Clark

The members of the Regulations Committee have worked for several years on a set of survey standards to be included in the Regulations under the Nova Scotia Land Surveyors Act. Acting on a motion at our Annual Meeting last November, we took our draft to the various Regional Meetings for comment and criticism from the membership. Taking a general consensus of the suggestions from these meetings, and from written submissions, we had completely revised the proposal by April 1, 1976.

Following the terms of reference of the Regulations Committee, we submitted the revised draft to Council at the April Council Meeting, recommending that it be presented for approval following legal and technical editing. We assumed that we would have some input during the editing process, in order to retain the intent of the Sections we had discussed at the Regional Meetings.

Earlier this week, I received copies of a revised draft of the Survey Standards proposal from the Technical Editing Committee appointed by Council. The Regulations Committee has not had an opportunity to review this revised draft as yet, but a great deal of work appears to have been done and a considerable number of changes made.

I assume that the draft is probably now in the hands of the Legislative Committee for review with their legal counsel. It is hoped that this portion of the Regulations will be put into shape in the next few months and will be ready to be voted on Section by Section at a Special General Meeting early in the coming year.

In closing, I would like to thank the members of the Regulations Committee, Ed Hingley and Bill Thompson, for their generous time and effort they gave to the workings of this Committee. I would also like to thank those of you who took the time to write to us and those who came to the Regional Meetings and gave us your opinions.

It was moved by Dave Clark and seconded by Bill Thompson that the Regulations Committee Report be adopted.

Discussion:

Bert Robertson - before the revised Regulations go to the Legislative Committee for their approval, I think the Resolutions Committee should give it very close scrutiny to ensure that no change in the intent of those Regulations had occurred. This should be done before the revised Regulations go to the Legislative Committee for their approval.

Doug MacDonald - as Chairman of the Technical Editing Committee I would like to apologize to Dave Clark for the lack of communication between my Committee and his during the summer months. We held five meetings in rapid succession before the Association took its summer break and only got around to putting our revisions in typed format during the fall season.

I can assure the membership that there is no change of intent. It was purely what it would suggest in technical editing and, if there is any change in intent found, it was certainly done inadvertently. We made a point of scrutinizing everything we did so as to guard against any change of intent. It is my personal feeling that there is quite a profound difference of opinion within the membership as to the level of accuracy and standards that should be reflected in our Association's Regulations. I personally think that Dave and his Committee did a tremendous job. This is an issue that requires a bit more debate before the Regulations reach their final form. We are too far away from the Regulations that have been laid down by the Province of New Brunswick. I believe the Province of Prince Edward Island has substantially the same Regulations as New Brunswick and I would suggest that, through some form, the membership should get together and perhaps debate the terms of their general level of effect before they go to the Legislative Committee for final forming up in terms of legal format.

Motion carried.

ASSOCIATION OF CERTIFIED TECHNICIANS
AND TECHNOLOGISTS OF NOVA SCOTIA - John C. MacInnis

The Association of Certified Survey Technicians and Technologists of Nova Scotia will soon be a reality.

The Founding Committee, as it evolved from the Investigative Committee of the Nova Scotia Branch of C.I.S., has been meeting on a regular basis over the past two and one-half years.

Last year I had reported that we had prepared the classifications and would soon call a General Meeting of those interested in the proposed Association. The latter has not yet come to be.

In the Spring of 1976 the Committee decided the best way to go to a General Meeting was to first incorporate the Association under the Societies Act.

A Constitution and By-laws were drafted, using those from other similar associations as guides. This was presented to a Solicitor who in turn formed this into a Memorandum of Association and By-laws as required under the Societies Act.

We have checked these documents and returned them, with minor changes, to the Solicitor for the preparation of the final documents to be presented to the Registrar under the Societies Act.

It now looks like we may have the Association registered before January 1977.

Financing - This Committee has been working with a \$200.00 grant from the A.O.N.S.L.S. since the Spring of 1975. At the present time the balance stands at about \$150.00.

This amount, of course, will not cover the legal fees and registration. The Technicians intend to use their proposed membership fees along with a small loan from each person to the Technicians' Association to cover the expected costs over the next few months and will be soliciting another grant from the A.O.N.S.L.S. early in the new year to help get the newly formed Association going.

On the request of the Technicians, the A.O.N.S.L.S. added Allen Hunter to the Committee in the Spring of 1976.

What is ahead? - Ahead of us lies the most difficult and time consuming job of reviewing applications and certifying members. This is where we will be requiring additional cooperation and assistance from the land surveyors.

In completing this report I would like, on behalf of the other Committee Members, to thank the firms of Servant, Dunbrack, McKenzie and MacDonald and Atlantic Air Survey for their generosity in the free use of their Conference Rooms.

It was moved by John MacInnis and seconded by Doug MacDonald that the C.S.T.T.N.S. Committee Report be adopted. Motion carried.

REPORT OF SURVEYING ENGINEERING PROGRAM (U.N.B.) - Angus Hamilton

The Surveying and Engineering Department is alive and well. In the undergraduate program, as of October 1977, we had 151 students. Of these, 120 were Canadian and 31 were from other countries. In addition, we have approximately 20 graduate students on campus in the Department.

The interesting observation, in respect to Nova Scotia, is that we had a 300% increase in the registration of students from Nova Scotia this year. We now have 6. From British Columbia we have 8, from Ontario the figure is 24 and from Quebec, 11. We have students from every province and the territories, with the exception of Saskatchewan.

We have modified the traditional five-year program that we had at U.N.B. to what is called a one hundred and eighty credit hour program, which is one hour per week per term. There is mathematics, computer science, general science which is the foundation of any applied science program at University. We have a basic engineering section. This is because we are in an engineering faculty, which is one of the requirements for a degree that has the label engineering on it. We also have some non technical subjects. These are subjects designed to broaden the viewpoint of the student. We are not entirely satisfied with this sector at the moment and it is in for further revision. We have the Surveying Engineering component of the program and this plus some technical electives which may be in Surveying Engineering or they may be in allied subjects such as civil engineering and the planning aspect of civil engineering or in forestry, geology, etc. The component of this that is directly oriented to professional practice is Law, a course in Commercial Law, and a course in Property Law.

As an aid to gaining the much needed practical experience required by the profession, we have a Co-op Program established whereby students are required to work at least six months in a related field and subsequently present a written and verbal report.

We have an elective section and this is what we would anticipate the students heading towards professional practice would follow. Relating to this, there is a more involved course on the Cadastre, there is a course on Land Economy, and a course on Survey Law which is not fully organized as yet; there is also a program on Surveying Management with other elective courses and related subjects that a student can take.

In addition to this a student can take, at the present time, two electives in urban planning. If the student chooses this package he is getting a strong base in material directly related to the practice of surveying.

As a result of your decision last year, that the Bachelor level is your objective, we would like to form an Advisory Committee on the professional practice sector of our Program. I invite your Association to name a representative to this Committee. We want to have some continuing formal channel of communication between your Association and our Department. I will confirm this invitation with a letter.

PANEL DISCUSSIONS

Two panel discussions proceeded the lunch break on Saturday. The first entitled "Metric Dialogue" was moderated by Roy Dunbrack with the following panelists:

Paul Calda, P. Eng., Director of Engineering and Works, City of Halifax

Mirko J. Macalik, P. Eng., Nova Scotia Technical College

G. B. Padam, P. Eng., Project Engineer, Fraser Brace Maritimes Limited

William A. Thompson, N.S.L.S., Land Registration and Information Service

The presentations and discussion provided an opportunity to gain information as to what was happening in the construction and municipal sector with respect to metric conversion.

A second panel discussion entitled "Title Search and Certification" was moderated by J. Gary Glenn with Heather Cole, a Freelance Searcher, and W. E. (Ned) Kelleher, a Solicitor, as guest panelists. Both panelists made interesting presentations with Mr. Kelleher explaining at some length the role of the lawyer and finishing up with a rather lengthy list of what he ideally would expect from a Surveyor on a certificate for mortgage or title purposes.

Discussion from the floor led to the following motion:

It was moved by Walter Servant that the Council of the Association form a Committee to liaise with the mortgage companies, money lenders, barristers, etc., who are requesting the services of Nova Scotia Land Surveyors in supplying Surveyor's Certificates in connection with their mortgage and lending activities.

Seconded by Al Wallace. Motion carried.

* * * * *

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** PRESIDENT'S REPORT **

We are completing the 25th year in the life of our Association and in that time it has brought recognition, respect and honour to Nova Scotia Land Surveyors. Our membership has increased each year since the formal organization in 1951, this to me is the best indicator that we belong to a dynamic group of colleagues.

To demonstrate the conscientious efforts of your 1975-76 Council I will review some of our achievements:

- 1) For those of you who attended the Annual Meeting last year, you will remember that a great deal of serious discussion centered around the very poor financial state we were facing. To resolve this situation you gave approval to have Council submit a request to the Governor-in-Council to increase the membership fee to \$150.00. A detailed submission was made following our December Council Meeting. Between the period of December 1975 and July 1976 it was necessary to hold two Special Council Meetings, over and above the regular ones, because we were faced with the financial problem "NO MONEY TO OPERATE", so on your behalf we borrowed \$5,000.00 from the bank. This alleviated the situation for awhile. In June the Council approved the borrowing of another \$5,000.00. This action was put off as long as possible and rightly so, because the Governor-in-Council, on July 20th, agreed that our membership fee be raised to \$150.00/annum. You have already heard the financial report for the fiscal year and know that we now have some working capital to carry out some of the programs a professional body must be engaged in.
- 2) Apart from the financial side of Council's concern, the Liaison Committee was given a vote of confidence to present the professional land surveyors' view to the Association of Professional Engineers of Nova Scotia. Doug MacDonald and his Committee had a series of meetings which were very gratifying.
- 3) The Organizational Committee of the Certified Survey Technicians and Technologists of Nova Scotia presented several reports to Council which, after considerable discussion and some suggested amendments, were approved. It is now clear that this new Association will become a reality under the Executive under the Chairmanship of Len Kincaid (Atlantic Air Surveys).
- 4) The Council has accepted the application of three new members and two reinstatement of membership. Mr. Ronald S. Dunn, Manager of Provincial Crown Lands Records Centre was accepted as an Associate Member because of his keen interest in our Association and for the service his office offers the survey profession with regard to survey plans and records.
- 5) You have already been presented with the fiscal year financial statement which for the first time was prepared by a professional Chartered Accountant. Council decided to have this complete audit and an assessment of our bookkeeping system. It did not take our Auditor very long before he recommended that the Association office be operated on acceptable bookkeeping procedures. The new procedures will be initiated immediately.
- 6) In September, we were given notice to vacate our Association office by November 30th. An ad hoc committee was set up to search out the possibilities for new premises. Several locations were viewed by members and as a result we are negotiating with the Construction Association of Nova Scotia for space in their new building.
- 7) During the spring and early fall the total Council held three Judicial Hearings concerning discipline of two of our members. Both members were conditionally suspended. Before these Hearings were held Mr. Arthur

Donahoe, our Association Legal Counsel, was asked to prepare procedures that we would follow to ensure that natural justice would be carried out. It was necessary to have our legal counsel attend as well as an authorized court recorder who would prepare the certified transcripts.

The Committee Reports you heard today and the brief outline of Council activities, which I have just outlined, will assure you that we are an active Association.

As you President, I have attended the following Provincial functions:

- 1) A Regional Meeting in Liverpool.
- 2) As a guest at the Annual Meeting of APENS.
- 3) My wife and I were guests at the Nova Scotia Forest Products Annual Meeting.
- 4) My wife and I attended the graduation exercises at the Nova Scotia Land Survey Institute in Lawrencetown.

I should mention that it was my pleasant duty while in Lawrencetown to present the James A. H. Church prize, on behalf of the Association, to the "First Year Student who made the most progress". This year the recipient was Cyril Philip LeBlanc. Mr. LeBlanc was presented with the excellent book by Don Thompson, "Skyview Canada".

As you all may know the President of the Association automatically becomes a member of the Board of Examiners. This year I attended three Board Meetings. The Board recognizes the necessity to raise our educational requirements and has instructed the examiners to expect more fully answered questions. The pass marks for three final examinations has been raised to 65%.

Our Association has been represented at a number out-of-province meetings, they are as follows:-

- 1) Two of these meetings were called by L.R.I.S., one in Summerside concerning Data Storage and one in Fredericton with regard to "Survey Accuracies". (You will have a chance to hear more on this in the panel discussion that follows my report). I represented the Association in Summerside and Doug MacDonald and I were representatives in Fredericton.
- 2) Keith AuCoin was our ambassador at the New Brunswick Land Surveyors Annual Meeting held in Fredericton.
- 3) It was with pride and honor that I represented our Association in Toronto at the first meetings of the incorporated Canadian Council of Land Surveyors.
- 4) Immediately following the C.C.L.S. Meetings, my wife joined me as guests of the Ontario Land Surveyors. This meeting was an historic occasion because every province was represented at this provincial Association's Annual Meeting.

I received invitations from the western provinces but declined their offers because I would be attending the Canadian Council of Land Surveyors' meeting which preceded the Canadian Institute of Surveying Annual Meeting in Winnipeg. At these meetings I was able to convey our best wishes and to be involved in some beneficial discussion.

- 5) My wife and I were also guests of the Newfoundland Land Surveyors. I was impressed with hospitality and the weather. I assure you the sun shone each of the three days we were in St. John's.

- 6) The Prince Edward Island Land Surveyors made us very welcome. I received a golfing award for not arriving in time to participate in their tournament.
- 7) Ed Rice, our Association representative, and I attended the mid year C.C.L.S. meeting in Toronto on October 18th and 19th. Ed has reported on C.C.L.S. so you are aware of the activities of C.C.L.S.

I was unable to attend the Quebec Land Surveyors meeting and my representative, Marcellin Chiasson, at the last minute, was also unable to attend.

- 8) Our Association was a sponsor of a symposium on "User Requirements for Land Records and Resources Information" which was held in Orono at the University of Maine. Garnet Clarke attended this symposium wearing the hat of the Association.
- 9) The M.A.L.S.C.E. Annual Meeting was held this year in Boston and Fred Hutchinson represented us there.

I want to publicly thank Ed Rice for all the assistance he has given me throughout the past year and also thank all the Council Members and our Business Manager for their faithful attendance at so many meetings. A special thanks must go to Ron Dearman, Councillor from Yarmouth. Ron never missed a meeting in two years.

My thanks also go to the Convention Committee and Chairman, Ted Webber, for making these business sessions and social functions all fit together.

Before I complete this Report I would like to make a couple of recommendations:

- a) Instead of using the Judicial Hearing method of up-grading our membership, I recommend that we develop a program of continuing education to retrain and up-date our members. Those who do not take advantage of the working seminars may find that the Judicial Hearing is the only way to keep a good working standard.
- b) The University of New Brunswick, the only University in Atlantic Canada to have a Survey Engineering degree, must have our support. Atlantic Canada has a population base that is sufficient to provide a continuous supply of students to one university with Survey Engineering. I recommend that our Association provide U.N.B. with all the assistance required to develop a course content that will satisfy the needs of the Nova Scotia Land Surveyor.

In conclusion I want to express my sincere thanks to you who have made my term as President an unforgettable and informative experience.

* * * * *

It was moved by Bert Robertson and seconded by Don Eldridge that Joseph F. Archibald be made an Honorary Member of the Association. Motion carried.

INSTALLATION OF NEW OFFICERS

President asked the Past Presidents to escort Mr. Keith AuCoin to the platform.

Mr. Feetham, as a Commissioner of the Supreme Court of Nova Scotia, asked Mr. AuCoin to repeat the following:

OATH OF OFFICE

I, KEITH PETER AuCOIN, DO HEREBY SOLEMNLY SWEAR THAT DURING MY TERM OF OFFICE AS PRESIDENT OF THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS I SHALL DISCHARGE THE DUTIES OF THIS OFFICE WITH THE UTMOST DEDICATION, HONESTY AND INTEGRITY, THAT I SHALL BE GUIDED IN MY DECISIONS BY THE WISDOM OF COUNCIL AND THE DIRECTIONS PROVIDED IN THE NOVA SCOTIA LAND SURVEYORS ACT AND ASSOCIATED BY-LAWS AND REGULATIONS, SO HELP ME GOD.

SWORN BEFORE ME AT HALIFAX
IN THE COUNTY OF HALIFAX
PROVINCE OF NOVA SCOTIA THIS
20TH DAY OF NOVEMBER 1976 A.D.



L. R. FEETHAM
A COMMISSIONER OF THE SUPREME COURT
OF NOVA SCOTIA



KEITH PETER AuCOIN

** ACCEPTANCE SPEECH **

Mr. Feetham, immediate Past President Ivan, all other Past Presidents, members and distinguished guests; it is an extreme personal pleasure, and indeed a great honour, for me to stand before you today and accept the office of President of the Association of Nova Scotia Land Surveyors for the year 1977.

The position that I am accepting is a most responsible one and in an effort to live up to the standards and traditions set by my predecessors in office, I will not only have to exert a tremendous effort but will require the working support of each and every member of the Association.

I am extremely pleased at the announcement of this year's slate of new Councillors and, together with the senior Councillors, I am sure we will have a most productive and satisfying year. The work loads and responsibilities of Council have become greater with each succeeding year and I expect that, with this dedicated group of hard working Councillors, the year 1977 will be no exception.

During the year I hope to keep in touch with you by authoring regular articles in our Nova Scotian Surveyor. Using this as an information vehicle, I will highlight important announcements and items of business as they happen throughout the year.

I plan to take an active part, as your ex officio member on the Board of Examiners, the Canadian Council of Land Surveyors and the Advisory Board to the Survey School. As a result of occasional out-of-province visits at other meetings and conventions, I plan to keep you informed on the status and progress of the surveying community through various parts of Canada.

Two extremely important items that we should be looking at very seriously are continuing education and the legal responsibilities of the Land Surveyor. With the guidance of Council and the assistance of our committees, I am hoping we, as an Association, can make tremendous strides forward in both these directions.

Wherever possible, I will make myself available to any and all members of the Association and I will endeavour to serve this office to the best of my ability at all times.

President AuCoin then introduced the new members of Council as follows:

M. J. Banks	- Vice-President
F. W. Roberts	- Halifax City
J. G. Glenn	- Halifax County
E. B. Hebb	- Western Nova Scotia
J. E. Hanifen	- Eastern Nova Scotia
W. D. Hardy	- Cape Breton
R. A. Dunbrack	- Councillor-at-Large.

NEW BUSINESS

FINANCIAL COMMITTEE - E. P. Rice

The Financial Committee is made up of Bill Thompson and myself, as Chairman. This proved to be a very convenient arrangement in the organization of our meetings, as both of us are residents of the New Glasgow area. According to our terms of reference we had two functions: one of which was to monitor the budget in force while the other was to prepare a new budget for the coming year.

The Committee met monthly throughout the year and we are now of the opinion that the budget cannot be monitored properly from New Glasgow. During the past twelve months, Bill and I were not able to arrange our schedules so that we could meet at the Association's Office in Halifax to monitor the books. We feel that we did not provide enough assistance to the Executive and were not able to keep on top of all the problems that were encountered. For this reason we have recommended to the incoming President that the new Financial Committee be made up of members from the Halifax Metropolitan area who could meet on a regular monthly basis at the Association Office.

BUDGET FOR 1977

DISBURSEMENTS:

President (Delegates, etc. travelling)	\$ 2,000.00
Vice President (Workshops)	800.00
Disciplinary Matters	4,000.00
Board of Examiners	3,500.00

Secretary-Treasurer Administration

Manager's Salary (\$10,000 + \$2,000)	\$12,000.00	
Secretary-Treasurer Honorarium	1,000.00	
Rent	2,600.00	
Stationary	1,500.00	
Postage	600.00	
Telephone	600.00	
Special General Meeting	300.00	
Office Equipment	400.00	
Reproduction (Roll of Members)	1,200.00	
Council Meetings	1,200.00	
Regional Meetings	400.00	
Miscellaneous	255.00	
C.C.L.S. (220 @ \$6.00)	<u>1,320.00</u>	23,375.00

BROUGHT FORWARD \$23,375.00

Protection Committee

Professional Status	\$ 200.00	
Salary Review	200.00	
Private Practice	<u>200.00</u>	600.00

Communications Committee

The Nova Scotian Surveyor	\$ 2,500.00	
Liaison	<u>100.00</u>	2,600.00

Survey Standards Committee

Education	\$ 1,100.00	
Regulations	<u>500.00</u>	1,600.00

Public Service Committee

Legislation	\$ 3,000.00	
Publicity	100.00	
Complaints	<u>200.00</u>	3,300.00

TOTAL		<u>\$41,775.00</u>
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RECEIPTS:

Membership Fees:

220 @ \$150.00	\$33,000.00	
3 @ 75.00	225.00	
18 @ 25.00	450.00	
30 @ 15.00	<u>450.00</u>	\$34,125.00

The Nova Scotian Surveyor	1,800.00
Education (Exam fees, papers, etc.)	3,500.00
Seminars	1,100.00
Miscellaneous	900.00
Interest	<u>350.00</u>

TOTAL	<u>\$41,775.00</u>
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It was moved by Ed Rice and seconded by Bill Thompson that the Financial Committee Report be adopted. Motion carried.

President AuCoin brought it to the attention of the meeting that two of our members had passed away during the past year; James E. MacNeil of St. Margarets Village, Victoria County, and David W. W. Hudson, Edmunston, New Brunswick. A one minute silence was observed by all those present.

It was noted that the overall attendance at the Annual Meeting was 180.

MEETING ADJOURNED

President AuCoin thanked the Exhibitors for presenting an excellent showing of their products, and offered a special thank you to Al Daykin for organizing the Exhibitors' program.

Mr. Ed Rice moved and Ivan Macdonald seconded that the 26th Annual Meeting be adjourned. Motion carried.

President AuCoin declared the meeting adjourned.

Respectfully submitted,

F. C. Hutchinson

F. C. Hutchinson, N.S.L.S.,
Secretary-Treasurer

** BY-LAWS **

A Committee has been appointed to review existing by-laws and draft such new ones as may be needed when our new Act comes into force.

Suggestions or comments from members are welcome. Please send them to:

J. B. Gillis, N.S.L.S.
P. O. Box 308
Middleton, Annapolis Co., N. S.
B0S 1P0.

* * * * *

** N O T I C E **

The Nova Scotia Land Survey Institute wants to build up a technical library to serve both the student body and others in the surveying and mapping community.

Donations of technical books, reports and periodicals will be most welcome.

Single copies of the following technical publications are especially welcome since they may match up with others to give us complete sets and will provide spares in any case:

The Canadian Surveyor
Photogrammetric Engineering
The Nova Scotian Surveyor
The Survey Review
Surveying and Mapping.

* * * * *



IVAN & JIM AT THE BAR



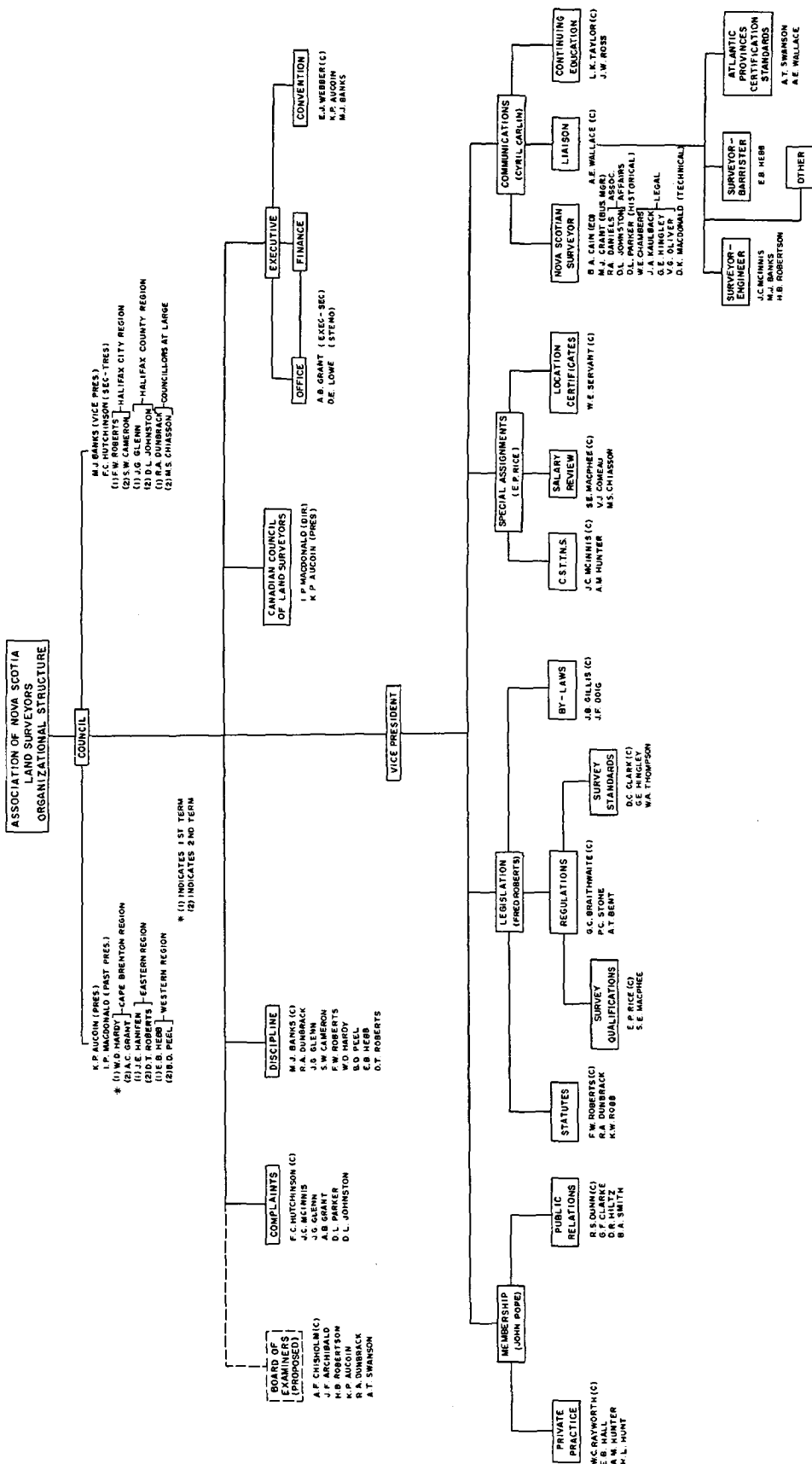
CHARLIE, GEORGE & LEW

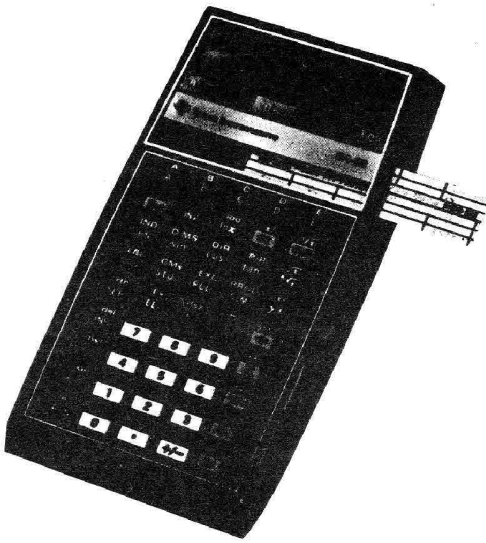


"NEW MEMBERS"
CHRIS GEDDES & WALTER JACKSON



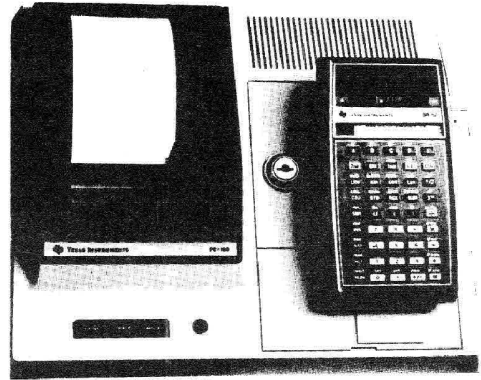
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The SR-52

A powerful handheld card programmable calculator. Solves complex repetitive problems or works through lengthy problems in seconds.



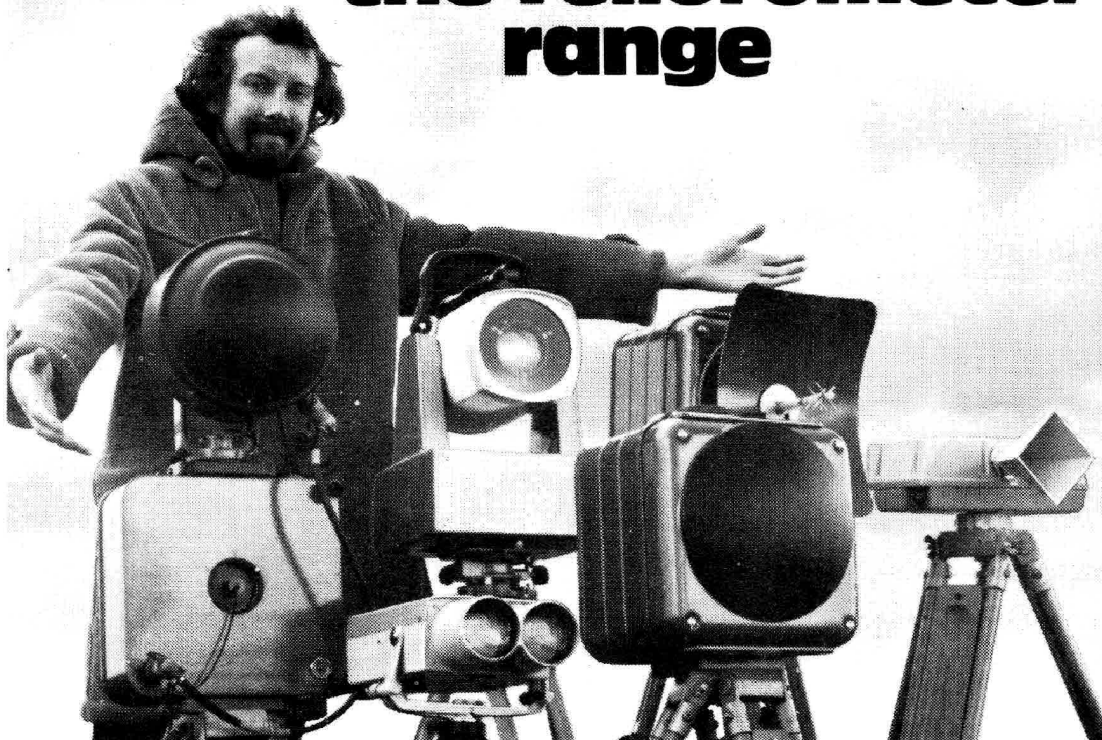
The PC-100

A high-styled printer control to use with an SR-52 and other TI programmables that may be available in the future. Remove the SR-52's battery pack. Press the SR-52 down on the PC-100's connectors. The PC-100 prints whatever you see in the display register by pressing **2nd** **PI** on the SR-52

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Such are the hazards of being a pioneer that the name Tellurometer should be taken by some people as the generic term for all Electronic Distance Measuring equipment. But there is, of course, only one Tellurometer Company and range of equipment, albeit a large one with an increasing number of different models suitable for practically every application.

Survey instruments

CA1000. A lightweight microwave system for geodetic survey. It has an accuracy of 5 parts per million and a range of 30km (18½ miles). Its operation is so simple that the remote station can be manned by unskilled personnel.

CD6. A lightweight infra-red system with a high accuracy over a range of up to 2km (1½ miles), which makes it ideal for cadastral survey. Signal reflection is from a suitable target/reflector, so a remote instrument is not needed.

MA100. A well established cadastral infra-red instrument ideal for use in civil engineering and underground applications. A mean square error of only 1.5mm is guaranteed, but many users claim 1mm or better.

Ruggedised equipment

MRA3 and MRA5. Two microwave systems of extremely rugged construction ideal for use under severe environmental conditions. The MRA5 features antenna separation for integral or remote (up to 25m/27 yd) operation and a fully automatic numerical display gives less than 20 seconds measurement time.

Position fixing systems

Systems based on the well established MRB201, integrated with plotters and computers and using auto-tracking antennae, are ideal for use in plotting and position fixing for such work as precision dredging, cable laying, off-shore rig positioning and aerial survey.

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