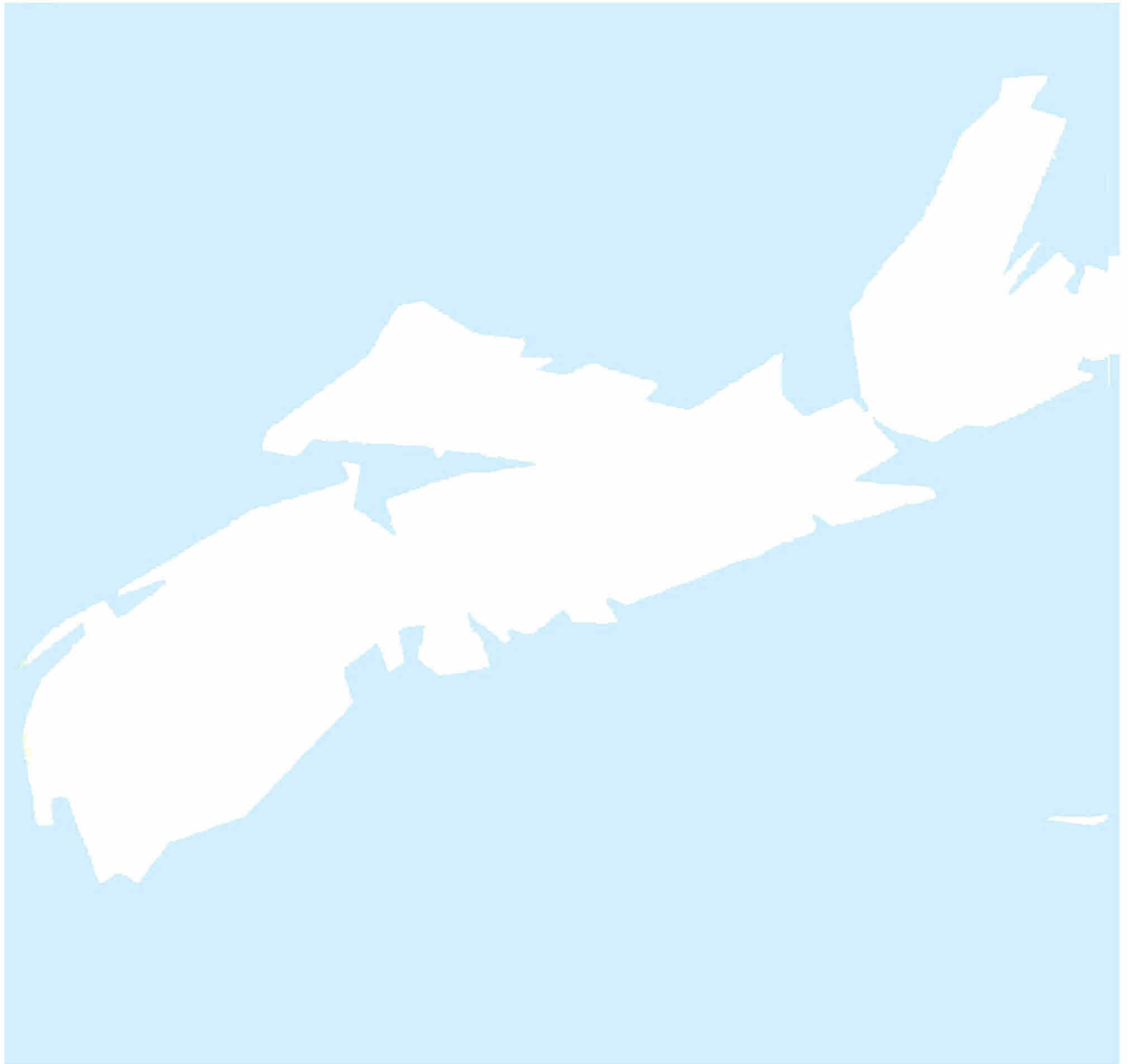


The NOVA SCOTIAN SURVEYOR



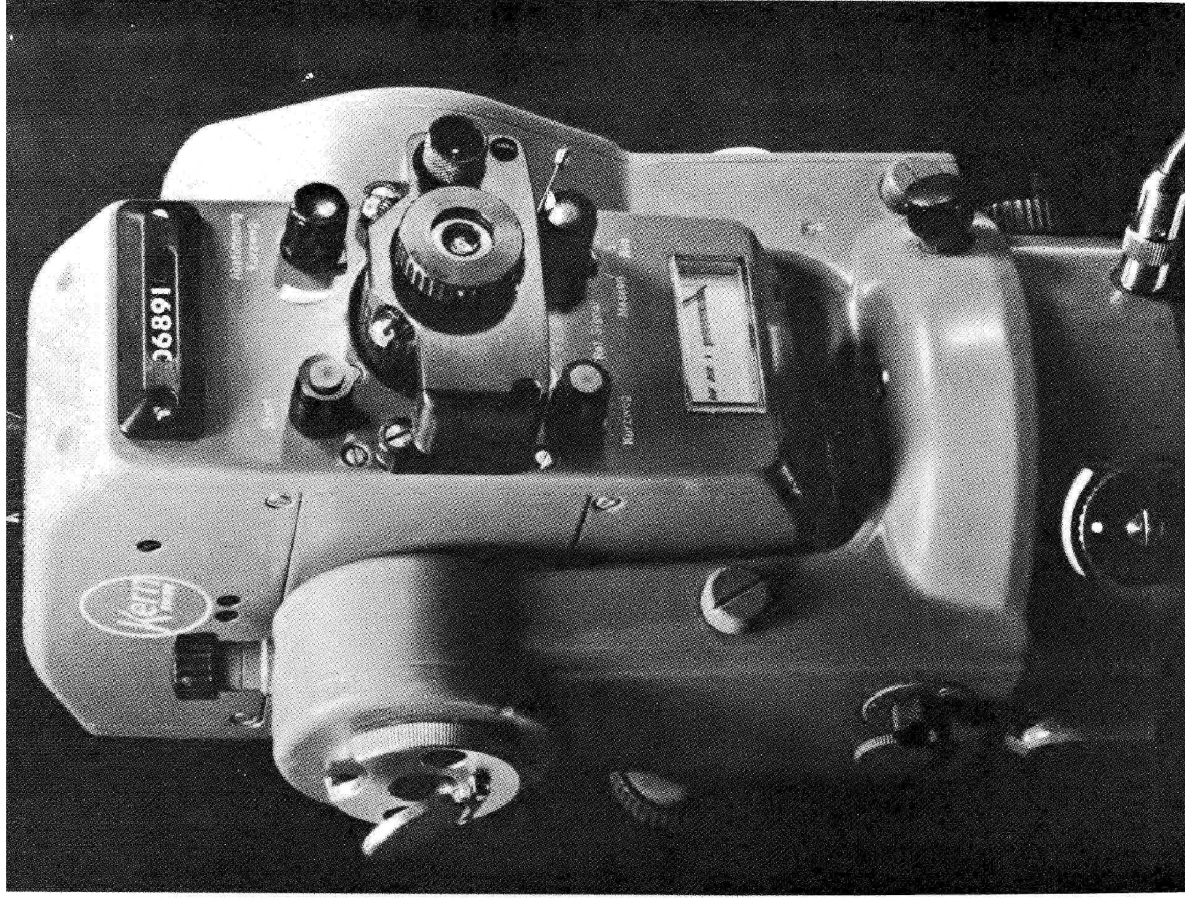
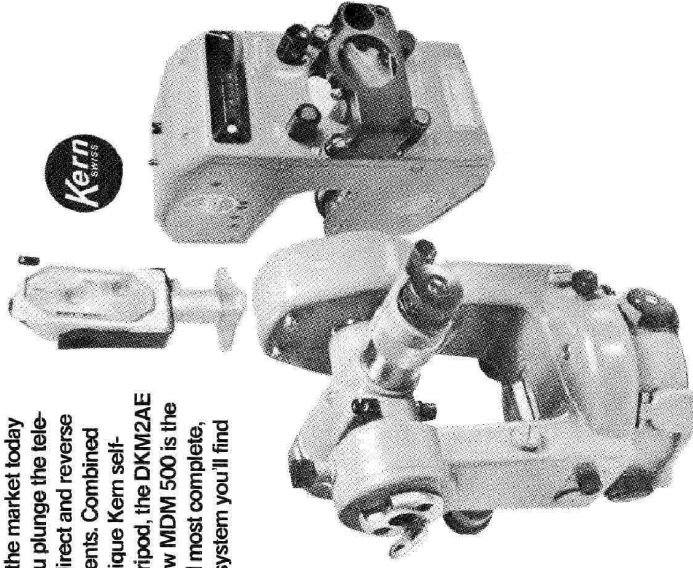
ANNUAL MEETING 1973

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The NOVA SCOTIAN SURVEYOR

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Editor

Garnet F. Clarke
Secretary-Treasurer

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ANNUAL MEETING 1973

No. 76

VIP's at the Opening



President, Bill Crooker, Hon. Glen Bagnell, Mayor Eileen Stubbs, John Lienesch, MALS & CE

- 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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THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

SLATE OF OFFICERS 1973-74

PRESIDENT.....	<i>James D. Chisholm</i>	P. O. Box 310 Amherst, N. S.	H-667-3786 0-667-7231
PAST PRESIDENT.....	<i>William S. Crooker</i>	6 Julie's Walk Halifax, N. S.	H-454-6749 0-455-4273
VICE PRESIDENT.....	<i>Edward P. Rice</i>	238 Elm Street New Glasgow, N.S.	H-752-8291 0-755-3155
SECRETARY-TREASURER.....	<i>Garnet F. Clarke</i>	R. R. #2 Newport Landing Hants Co., N. S.	H-757-2028 0-424-3234

COUNCILLORS

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	<i>**Keith P. AuCoin</i>	P. O. Box 1046 Windsor, N. S.	H-798-2963 0-798-2421
HALIFAX COUNTY.....	<i>*E. J. "Ted" Webber</i>	Lake Charlotte Halifax Co., N. S.	35-1
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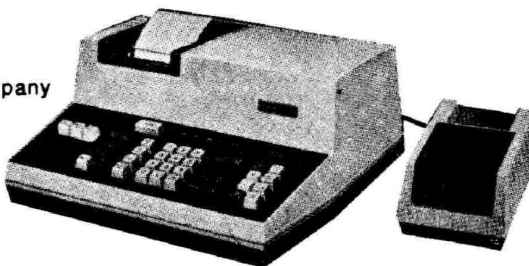
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THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

TWENTY-THIRD ANNUAL MEETING

DARTMOUTH INN, DARTMOUTH, N. S.

NOVEMBER 1, 2 AND 3, 1973

** MINUTES **

FRIDAY, NOVEMBER 2, 1973 - 10:00 A.M.

President W. S. Crooker, called the Twenty-Third Annual Meeting to order and introduced Mrs. Eileen Stubbs, the Mayor of Dartmouth.

Mrs. Stubbs extended a welcome to the members, the out of town guests and visitors to the meeting and hoped they would have a pleasant time.

At this point Mr. Crooker thanked Mrs. Stubbs for her welcome and congratulated her on her new office as Mayor of the City.

Mr. Crooker then called on George Bates to introduce the Hon. Glen Bagnell, Minister of the Environment, to officially open the meeting.

The text of Mr. Bagnell's speech follows:

Your Worship, Distinguished Guests and Members of The Association of Nova Scotia Land Surveyors, it is a pleasure for me to be here today. This is an organization with which I am quite familiar. We have been meeting with members and officers of your Association, together with other professionals in trying to determine the role of where government should be and where the private sector should be. I assume this is an Association which gathers all the professionals, regardless of their employer, together, so it is a distinct pleasure to be here in my own home City.

On behalf of the government we are very proud to be here this morning to be able to welcome your out of province visitors and perhaps suggest a word to them. I hope they have taken the time, or will take the time, during their visit to examine the metro heart of Nova Scotia and if you have the chance - go across to Halifax.

In relation to the role of the private sectors and in relation to government, and things that we are involved in, I think it might be interesting that you note that in my own career, as a professional pharmacist, that I was also dealing with government in my business and I was always concerned, as to whether in the distribution of medication in the province, that central government-run depots would be the best way to hand quality service and savings on to the people of Nova Scotia. I believe that there is no place better than in the competitive private sector of the economy in order to safe guard the people of Nova Scotia in providing top quality service because competitiveness does do this. There always will be and there always must be a role where the private sector can serve the community of Nova Scotia.

On behalf of the Province of Nova Scotia, I extend the warmest greetings of Premier Regan and his cabinet colleagues and wish you every success in your coming meetings. I hope that they are productive and they lead to, let's say, a far greater input from your Association and from your association with government. We are, I am sure, pleased that any opportunity that your Association will take to meet with members of cabinet and hope that we can be of service to you, and that we can coordinate our efforts in which to make Nova Scotia a better place to work as well as live.

I am sure, that in my Department of the Environment, as we go about planning, perhaps we will probably wind up with a major role in land use planning, the sort that everybody has a finger in now, whether its Development, Lands & Forests, Municipal Affairs or ourselves. I think that under our new legislation that it gives the direction to us to provide the leadership to see that these groups come together. This is going to involve tremendous time on your behalf as we get involved in designating areas of the province.

I look forward to hearing a report of your deliberations, and I wish you very well in them.

Thank you for your invitation.

President Crooker thanked Mr. Bagnell for his welcoming address.

At this time President Crooker introduced the visitors and guests as follows:

John P. Lienesch	- President, Massachusetts Association of Land Surveyors and Civil Engineers, Inc.
James B. O'Neill	- Vice President, Canadian Institute of Surveying
Bill MacLellan	- Representing, Department of Energy, Mines and Resources
Chester W. Gehue	- Representing, Corporation of Land Surveyors for Province of British Columbia
James Dearden	- Vice President, Association of Ontario Land Surveyors
Valmore J. Stewart	- President, Association of New Brunswick Land Surveyors
Albert Ewalt	- President, Eastern Massachusetts Association of Professional Engineers and Land Surveyors
C. Edwin Anderson	- Treasurer - M.A.L.S.C.E.
David Schofield	- M.A.L.S.C.E.
Llewellyn Schofield	- M.A.L.S.C.E.
John D. Halnon, Jr.	- M.A.L.S.C.E.
Fritz Petersohn	- M.A.L.S.C.E.
Winford L. Schofield	- M.A.L.S.C.E.
R. E. Moore	- Director, Department of Energy, Mines and Resources
Everett A. Green	- Institute of Applied Arts and Technology, Province of Nova Scotia
John MacLaughlin	- Department of Surveying Engineering, University of New Brunswick
Archie MacLaughlin	- New Brunswick Department of Natural Resources
Edgar Jamieson	- New Brunswick Department of Natural Resources.

Mr. John Lienesch, at his introduction presented a Cape Cod Land Grant to the Association, on the stipulation that a number of our members be present at the next M.A.L.S.C.E. Annual Meeting.

PRESIDENT'S REPORT - W. S. Crooker

It is a pleasure to welcome you to this Twenty-Third Annual Meeting of the Association of Nova Scotia Land Surveyors and to report to you on the progress of our Association over the past year.

We regret the deaths of four of our members in the past year and I would ask you to rise for a moment of silence in respect of the late James K. MacKay of Shelburne, the late Glenford L. Gilbert of Windsor Junction, the late Gordon A. Nicholson of Stellarton and the late Vincent P. Harrison of Halifax.

As your President, I represented your Association at the Annual Meetings in New Brunswick, Newfoundland, Ontario and Massachusetts. Your Vice President represented you at the Annual Meeting of the Association of Prince Edward Island Land Surveyors.

In April I had the pleasure of representing your Association at the Canadian Institute of Surveying in Ottawa, and at that time, I attended the Provincial Presidents' Meeting which was held on the first day of my visit to Ottawa.

In May I had the pleasure of attending the closing exercises of the Nova Scotia Land Survey Institute at Lawrencetown, and it was my pleasure to present the Major J. A. H. Church award on behalf of your Association.

Joan, my wife, accompanied me on all trips out of province, as well as local functions, and a considerable amount of work was done by her in connection with these trips. I have been terribly busy all year and my business sort of got into an overworked problem. I thank her for all her efforts in making these trips possible.

The view of the problems of other Associations, in participating in their meetings, has provided me with a greater insight into the problems in conducting the surveying profession in the Province of Nova Scotia. During the past years I think we have stayed too much at home. I think that it is a very narrow point of view that nothing was gained by sending your representative abroad, I think that both Associations are enriched by exchange of ideas and I think that by being there the guests contribute as well.

This year we have fully represented ourselves in the Maritimes and we represented ourselves in Ontario, which I think was very good, but the Prairie Provinces remained untouched. I think that we should give serious consideration in future years to sending a member out to the Prairie Provinces once a year. That would be one Prairie Province per year and that we have a representative go out to the west coast once in three years. I think that is very important.

This year has been a very busy one for Council, Gentlemen. The Association has grown to a point where the work of running the Association, the general run of the mill work, takes Council's full time. With our present meeting schedule there is not sufficient available time to discuss ideas, to work out plans for the future. Realizing that more effective use of Council's time is desirable, the Association's Future and Financial Committee has made a serious study of our needs and has proposed plans for re-organization. The report on this matter will be given by the Chairman of the Association's Future and Financial Committee later during Committee Reports.

Several new Committees were formed this year. One of these Committees deal exclusively with the Communication problems that exist between the Surveyor and the Engineer. I think you are going to find the report from this particular Committee very interesting.

Another Committee is involved in Standardization of Survey Monuments, something that we needed to do for a long time.

Another Committee was charged with the responsibility of studying and working with the Department of Lands and Forests on Regulations of the Surveyors Act. There will be reports from these Committees as well.

Several Committees with similar interests were combined. The Association's Future Committee and Financial Committee were combined into one Committee.

The Minimum Tariff and Private Practice Committees were also combined.

As the Board of Examiners include the president as a member, I had the pleasure of attending the Board Meetings. It became apparent to me at my first meeting that the Board was swamped with work. We met frequently throughout the year but there was no time to study education qualifications. All applications for certificates must be reviewed by the Board and this is a very time consuming activity. In making recommendations on education requirements we must know what is required of a surveyor and know if the existing educational system fulfills its needs.

In planning for the future, we must be able to foresee what the Surveyor of the future may be required to do. With the implementation of the Coordinate System particularly, what will the job of the Surveyor ten years hence be with respect to Boundary work? It became evident to Council, however, that the Association has little, if any, input to the Board of Examiners on Standards. Being seriously concerned with the educational system, Council, in its wisdom, has seen fit to initiate an Educational Committee to study educational requirements and to act in an advisory capacity to the Board. Terms of reference are being written for this Committee and a competent chairman and members are being sought to do the work.

In recent years, the Legislative Committee has been chaired by the Vice Presidents. Some of our Vice Presidents have a keen interest for Legislative reform, however, this aspect of Association work does not hold the same feel for all. What we properly require is a standing Committee, whose chairman and members will have an opportunity to gain experience over an extended period of time. In respect of this requirement, Council will appoint members and a competent chairman to form this Committee in the future. Generally the Committee's task will be to scrutinize bills which are before the Legislature to ensure that anything to do with surveys or surveying is in the interest of the public; to analyze proposed changes in legislation or in the by-laws of the Association which may come from either Council or members and to prepare necessary changes to existing laws or by-laws and submit to the approving authority. All sounds very complicated but, in fact, it is very necessary and very straight forward.

I would like to thank Council, on your behalf, for all their work during the year and our Association Secretary for his hard work. The attendance at Council meetings has been indeed excellent. All members worked hard and took a keen interest in discussing Association business at Council Meetings.

I also thank, on your behalf, the Board of Examiners, Professor A. F. Chisholm and their Secretary, Joseph F. Archibald. They too are to be congratulated for their continuous effort and activities. It is indeed a privilege and an honor to serve you as President. I have attempted to improve your Association, and I thank you for your cooperation and guidance.

In closing I wish to thank the Exhibitors for their display of equipment.

Thank you.

MINUTES OF THE TWENTY-SECOND ANNUAL MEETING

The President called on the Secretary-Treasurer, Mr. G.F. Clarke, to read the minutes of the Twenty-Second Annual Meeting. Mr. L. R. Feetham moved that the minutes of the Twenty-Second Annual Meeting be adopted as written and distributed. Seconded by Mr. B. Campbell. Motion carried.

FINANCIAL REPORT -

Mr. G. F. Clarke moved that the Financial Report be adopted as presented and distributed to the meeting. Seconded by L. R. Feetham. Motion carried. (See Financial Report on Page 39).

SECRETARY-TREASURER'S REPORT -

Mr. President, Guests and Members,

Membership of the Association is as follows: 8 Honourary Members, 15 Life Members, 218 Regular Members, 1 Associate Member, 26 Non-practicing Members, 28 in arrears, for a total of 294 Members.

In July we purchased a \$200.00 Debenture and in September we purchased a \$1000.00 Debenture. The \$1000.00 Debenture gathers interest at a rate of 9%. Interest on savings to date is \$30.54.

Council Meetings were held on the following dates: - November 14, 1972, December 9, 1972, March 10, 1973, June 1, 1973 and September 8, 1973. The summary of all these Council Minutes were printed in The Nova Scotian Surveyor. A number of Regional Meetings were held throughout the province during the year. These will be reported later on during the meeting.

I would like to thank the Executive and Council for their help during the year and look forward to help in the future. I would also like to thank Dave Hiltz and his Convention Committee for the work they have done in organizing this Convention. Also a thanks to the Exhibitors in displaying their equipment, without which the meeting would experience a sort of a loss. This is the only way we can keep updated on the new equipment.

SCRUTINEER'S REPORT -

In accordance with Section 19, of the By-laws of the Association, a list of candidates was mailed out two weeks prior to this meeting. A total of 263 ballots were sent out, 123 were returned for a percentage of 47%.

President	James D. Chisholm
Vice President	Edward P. Rice
Secretary-Treasurer	Garnet F. Clarke
Councillors:	
Halifax City	Keith P. AuCoin
Halifax County	Al Wallace
Western Nova Scotia	Stewart MacPhee
Eastern Nova Scotia	C. J. MacLellan
Cape Breton	Leonard M. Harvey
Councillor at Large	Victor J. Comeau

THE NOVA SCOTIAN SURVEYOR EDITORIAL BOARD REPORT - By W. E. Servant

Your Nova Scotian Surveyor has not been printed as often this year as in the past several years. This has been due principally to Ivan Macdonald, who has gone into private practice and, so, does not have the same time to devote to the Surveyor as in the past. We are certainly missing his extra time, but he now has an Issue being prepared.

The Editorial Board of Ivan Macdonald, Roy Dunbrack and myself, as a three man team has been able to produce The Nova Scotian Surveyor very well in the past and we have enjoyed doing it. We trust we can catch up on the missing issues very soon.

SURVEY TECHNICIANS AND TECHNOLOGISTS REPORT - by Ivan P. Macdonald

Mr. President, Members and Guests,

My report may seem brief but I feel what has happened on the Survey Technicians' scene since I reported last year will have long-lasting effects in Canada and even the Atlantic Provinces. The significant meetings of which our Association had representation were as follows:

Fred Roberts, N.S.L.S. was delegated to represent our Association at the Meeting of the C.I.S. Committee at the last C.I.S. Annual Convention which was held in Ottawa. Mr. Roberts had a chance to hear and review the background planning and present activities and future forecasting of the Canadian Association of Survey Technicians and Technologists which is planned. He also recommends that a National grouping at the power of National level be supported in principle by our Association. To sum up some of the main points of that meeting are as follows:

The National Association can act as a organizational umbrella for member provincial groups. The National Association can act as an organizational home for survey personnel geographically outside the main stream of present organizational activities. The National Association can act as a catalyst which would foster improvements in the educational standards. A National Association would be a tremendous guide for those provinces who will get to set up a provincial organization.

The next significant meeting took place on October 13, in Fredericton of this year, and was attended by John MacInnis. A draft copy of the Letters Patent and By-laws of the proposed National Association was studied. Suggestions were made to the effect that the Atlantic Provinces work together towards the National certification, that all phases of surveys be considered. The suggested continuing committee for Nova Scotia and those who have contributed to some of the work of the Survey Technicians and Technologists' idea for Nova Scotia were Jim Doig, Gerry Bourbonniere with the City of Dartmouth, Len Kincaid with Atlantic Air Survey and John C. MacInnis. I would like to thank each of these gentlemen for helping me.

Our surveying profession in Nova Scotia is at a point where the para-professional must be given the chance to better themselves and to associate themselves.

NOVA SCOTIA LAND SURVEY INSTITUTE - by J. F. Doig, Principal

We are operating, as usual, at full capacity. The only vacant spaces occur by reason of students who were unsuccessful in the first year of their course. We have one student this year from Prince Edward Island, five students from New Brunswick, and the remainder of fifty-two students are from Nova Scotia by and large.

We have not met the demands placed upon us by industry in the last two years for survey graduates, but our production of Cartography and Photogrammetry graduates seems about what industry is able to absorb each year.

As most of you are aware, new facilities are to be provided for us. Very briefly, these consist of:

A 260-acre tract west of the Exhibition Grounds and north of No. 1 Highway, which will serve as a training area for a variety of field projects.

A building of some 60,000 square feet floor space which will provide accommodation, eventually, for about 225 students.

The building will include a library, gymnasium, theatre facilities, a student lounge and a cafeteria, as well as classrooms.

The total cost of construction is estimated at 1.6 million and tenders close on the 8th of November 1973.

Immediate plans are to increase our capacity in survey training by taking on an additional class. Additional courses, relevant to our present role in Surveying and Mapping, will follow. Courses in Planning, Assessment, Industrial Photography, and Computer Programming are likely ventures. It is possible, and I hope this turns out to be the case, that the Nova Scotia Land Survey Institute will become the Maritime centre for the training of Surveying and Mapping Technicians.

We acknowledge the continuing administrative and financial support of the Department of Education. Two officials of the Department who are directly concerned with our operations are very good friends: E. A. Green, Supervisor of Institutes of Applied Arts and Technology, and G. E. Streb, Assistant Director of Adult Education, and a Past President of three years back. W. D. Mills, another close friend in the Department and one whom we remember as Director of Vocational Education and very much involved in the construction of facilities in 1958, retired from the public service this year.

REPORT ON THE PROPOSED CANADIAN COUNCIL OF LAND SURVEYORS - by L. R. Feetham

This report is intended to bring you up to date on what has taken place since my last report on the Canadian Council of Land Surveyors given at our Annual Meeting in Sydney last fall.

The spring meeting of the Provincial Presidents was held in conjunction with the C.I.S. Annual Meeting at Ottawa last April. Your President, W.S. Crooker, and myself were in attendance. I must convey my appreciation to the President and Council of our Nova Scotia Association for sponsoring me at this spring meeting. The Canadian Council did not have funds available for travel expenses at that time. Since then, some \$3000 special levy has been collected from Provincial Associations across Canada, being the \$4.00 per member agreed to as a membership assessment within the province.

I am pleased to report that eight of our ten provinces have now formerly accepted the creation of a C.C.L.S., with Quebec and British Columbia not having made a final commitment. Quebec advises that it is prepared to join but recommends that C.I.S. be provided with membership in the organization as an observer only and not as a voting member. British Columbia also indicates it will join but due to a financial commitment associated with the C.I.S. Annual Meeting to be held in April at Vancouver, they felt it may be a little unfair to place any additional monetary burden on their members at this time.

The fall meeting for the C.C.L.S. was held at Winnipeg on October 12 and 13 with nine of the ten provinces represented. I was in attendance as a Committee Chairman and also had the pleasure of representing our President at that meeting. As Chairman of the Special Committee charged with the on-going investigation into a structure for the C.C.L.S., I had been instructed to obtain the legal services of the law firm of Nelligan and Power of Ottawa, who also act for the C.I.S. This has been done and Mr. Craig Callan-Jones of that firm is now acting for our group. There has been considerable correspondence resulting from this appointment, and I have used the Secretarial services of Miss Dorothy Lowe to fill this need. Copies of all correspondence are provided to our Secretary, Garnet Clarke.

Chairmanship for meetings is still moving from east to west. The Winnipeg meeting was chaired by Mr. Valmore J. Stewart, President of the New Brunswick Association, and Quebec will take over at Vancouver in April.

The Presidents have now named their first interim officers:

Robert T. McCurdy	- Secretary-Treasurer
Fred J. S. Pearce	- Co-Ordinator and Organizer
L. R. Feetham	- Special Committee on creation of Permanent Co-Ordinating Body Committee
C. Weir	- Committee Member
M. Levesque	- Committee Member.

We now have a draft application prepared for Letters Patent and the preparation of by-laws is well advanced. It was hoped we could announce our incorporation at the C.I.S. meeting in Vancouver next spring. I doubt if we will be able to be ready by that date. There are still some problems to be cleared up with Quebec, and it has been suggested that possibly the Dominion Land Surveyors may wish to have representation on the C.C.L.S. The D.L.S. are presently structured as a group by resolution within the C.I.S.; however, at this point it is purely conjecture, but contacts with the D.L.S. are being made.

Probably one of the severest problem we face is the ever changing membership attending the meetings. It seems that we have to do a new job of re-educating our Presidents at every other meeting. This is a natural phenomenon resulting from the progression of executive changes within provincial organizations. Some success has been made in that one Province, Newfoundland, has named a Past President, Mr. Elmer Ball, as their permanent representative to the Council. We are now attempting to have other provinces elect permanent representatives, thus providing the element of continued communication which is vital to the creation of any new organization.

The twice yearly meetings which we hold are not devoted entirely to structure, but rather to a variety of subject matter of interest to surveyors in general. I believe our Co-ordinator, Mr. Fred Pearce, has done an excellent job of developing communications between the Presidents in areas of membership dues, rate structures, education, provincial membership, changes in legislation, and a host of other items. Each president is called on to make a report and a great deal of questioning usually follows.

This, gentlemen, is my report. I can honestly say that the future looks good for the creation of the C.C.L.S. and I am pleased to have had the opportunity to serve my fellow land surveyors in some small way by being involved with the Provincial Presidents at a National level.

NEW MEMBERS -

The list of new members of the Association was read by Mr. Crooker and welcomed to the meeting:

Alexander T. Edgett
 Arthur T. Bent
 J. Gary Glenn
 Alexander B. Cameron
 Lester W. Berrigan
 James E. MacNeil
 Willard M. MacDonald
 John W. Ross
 James W. P. Grant
 Keith P. AuCoin
 John C. Sutherland
 Dominic D. Lelievre
 Harold S. Lively

Non-practicing - Vernon G. Oliver

Reinstatement - Norris L. Bushell
 Cyrus J. MacLellan.

President Crooker then read a letter from John P. Lienesch, President, Massachusetts Association of Land Surveyors and Civil Engineers, Inc., to the new members concerning Survey as a career.

The meeting adjourned at 12:00 p.m. for the C.I.S. Luncheon.

**** EXHIBITORS ****

TELLUROMETER CANADA..... M. I. MOGG

MUNROE CALCULATOR COMPANY..... NEVILLE BRABROOK

ENAMEL AND HEATING PRODUCTS LIMITED..... W. A. HASTINGS

AGATRONICS LIMITED..... IAN H. MURRAY

THE HUGHES-OWENS COMPANY LIMITED..... ROY M. KEMP

HEWLETT-PACKARD (CANADA) LIMITED..... TERRY IRWIN

KEUFFEL & ESSER CANADA LIMITED..... JOHN F. WENTZELL

OLIVETTI CANADA LIMITED..... JOHN G. TESTER

NORMAN WADE COMPANY LIMITED..... KING FLOOD

PERMA ENGINEERING COMPANY LIMITED..... NEIFF JOSEPH

* * * * *

**** GUESTS - 23rd ANNUAL MEETING ****

Mr. & Mrs. Chester W. Gehue
Corporation of Land Surveyors of the Province of British Columbia

Mr. & Mrs. J. D. Dearden
Representing - Association of Ontario Land Surveyors

Mr. & Mrs. Valmore J. Stewart
President - Association of New Brunswick Land Surveyors

Mr. & Mrs. Everett A. Green
Director - Institute of Applied Arts and Technology
Province of Nova Scotia

Mr. & Mrs. John McLaughlin
Representing - Department of Surveying Engineering
University of New Brunswick

Mr. Jim O'Neil
Vice President - The Canadian Institute of Surveying

Mr. & Mrs. Frank C. O'Neill
President - The Association of Professional Engineers of Nova Scotia

Mr. Ray E. Moore
Director - Surveys & Mapping Branch
Department of Energy, Mines and Resources - Ottawa

Mr. W. D. McLellan
Representing - D. R. Slessor, Surveyor General
Department of Energy, Mines and Resources - Ottawa

Mr. & Mrs. Llewellyn T. Schofield
Framingham, Massachusetts

Mr. & Mrs. David Schofield
Orleans, Massachusetts

Mr. & Mrs. Winford L. Schofield
Orleans, Massachusetts

Mr. & Mrs. John P. Lienesch
President - Massachusetts Association of Land Surveyors
and Civil Engineers, Inc.

Mr. & Mrs. John D. Halnon, Jr.
Bellingham, Massachusetts

Mr. & Mrs. Fritz K. A. Petersohn
Bellingham, Massachusetts

Mr. & Mrs. Alfred Ewald
President - Eastern Massachusetts Association Provincial Land Surveyors

Mr. & Mrs. C. Edwin Anderson
Springfield, Massachusetts

Mr. Archie McLaughlin
Department of National Resources, New Brunswick

Mr. Edgar Jamieson
Department of National Resources, New Brunswick


Mr. Brian Potter
Secretary - Association of Prince Edward Island Land Surveyors

Mr. Karel Fila
Association of Prince Edward Island Land Surveyors

Mr. & Mrs. Art H. Abbott
The Association of Professional Engineers of Nova Scotia

Mrs. Eileen Stubbs
Mayor Elect, City of Dartmouth

Hon. Glen M. Bagnell
Minister of the Environment



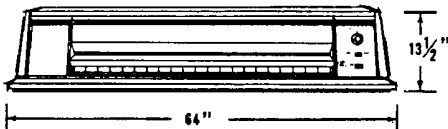
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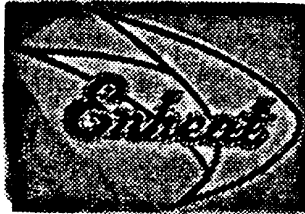
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FRIDAY, NOVEMBER 2, 1973 - 2:15 P.M.

RESOLUTIONS COMMITTEE REPORT - by *James D. Chisholm*

Mr. President, Gentlemen -

We have one resolution before us this afternoon that has been presented to this Committee for presentation and I would like to read it as follows:

"Be it resolved that the Annual Fee for Membership in The Association of Nova Scotia Land Surveyors be increased from \$30.00 to \$50.00 per year in the following manner: Dues as presently set forth in the By-laws \$30.00, plus a levy of \$20.00, which shall include the \$4.00 per member, payable to the Canadian Council of Land Surveyors. Dues presently set forth in the By-laws for Associate Membership and Junior Membership shall remain the same."

This resolution will be brought up in new business later on in the meeting.

DISCIPLINE COMMITTEE REPORT - by *James D. Chisholm*

Four complaints were referred to the Discipline Committee for action during this year. There were three meetings held and at two of these meetings, members of this Association who were involved in these complaints were interviewed. Two complaints are considered closed, as far as the Association is concerned, and two remain under study.

I do not consider it necessary to air the details of these complaints at this meeting; however, certainly any member is free to consult the correspondence or the reports on file relative to these complaints and the subsequent action that was taken by the Committee.

We made a general recommendation to Council for consideration:

- 1) To review Section 26 of the By-laws relative to the Code of Ethics.
- 2) Some considerations with regard to restructuring of the Discipline Committee.
- 3) Financial implications of the Association's action in governing its membership.

MINIMUM TARIFF AND PRIVATE PRACTICE COMMITTEE REPORT - by *John C. MacInnis*

Prior to March of this year, a form letter was prepared to inform various Municipal and Government organizations of this Association's feelings toward their requests for quotations for surveying services. The only reply received was from the Nova Scotia Housing Commission, referring to an article which appeared in the September 12, 1972 issue of "Engineering News Record" concerning bidding for professional services in the United States. The Secretary has a copy of this article, if you are interested.

On Tuesday, May 15, 1973, a group of concerned surveyors met with three members of the Nova Scotia Housing Commission, and discussed some of the problems pertaining to the Commission's practice in engaging surveying services. As a result of this meeting the Commission requested the following:

1. Copies of our Blue and Yellow Books
2. That letters be sent to various surveyors indicating that they were prepared to follow suggestions made at the May 15th meeting. (Many of these changes have now been made).

Within the past month, a draft questionnaire has been prepared concerning rates, a copy of which will be mailed out to all members shortly. A few copies are available now for your suggestions as to what additional content this questionnaire should have.

There have been no regular meetings held with the Private Practice Surveyors. I presume there have not been any special problems they wished discussed, because the only suggestion of a meeting that reached me was a verbal one a few weeks ago.

THE BOARD OF EXAMINERS FOR NOVA SCOTIA LAND SURVEYORS - by J. F. Archibald

Members on the Board of Examiners for the year 1973 were as follows:

- A. F. Chisholm, P. Eng., N.S.L.S. - Chairman
- W. S. Crooker, P. Eng., N.S.L.S. - President, The Association of Nova Scotia Land Surveyors
- H. B. Robertson, N.S.L.S. - Representing the Deputy Minister, Department of Lands and Forests
- A. H. Abbott, P. Eng., N.S.L.S. - Appointee of the Association of Professional Engineers of Nova Scotia
- Roy A. Dunbrack, N.S.L.S.
- J. F. Archibald, N.S.L.S.

The Board held eight meetings during the period November 1, 1972 to October 31, 1973, as follows:

December 4, 1972
 January 8, 1973
 January 29, 1973
 March 30, 1973
 April 9, 1973
 April 30, 1973
 May 29, 1973
 October 22, 1973.

The Board also met with the Members of the Examination Committee of the Association New Brunswick Land Surveyors and Members of the Association of Prince Edward Island Land Surveyors on March 30, 1973, at Moncton, New Brunswick further to upgrading the standards of Examinations for Land Surveyors.

As projected in the 1972 Annual Report, the Board added an extra three hour paper to the Intermediate examinations by separating the Examination on Curves and Survey Methods into the two subjects of Curves and Survey Methods.

Also in intermediates, the Astronomy paper was "beefed up" in order to eliminate it from the Part I Finals, where it was replaced by the subject Geodesy and Map Projections.

The subject of Subdivision Planning and Photogrammetry of the Part I Finals was divided into the two subjects of Subdivision Planning and Photogrammetry with Subdivision Planning becoming a Final Part II subject as set out in the Regulations of the Board of Examiners.

The legal paper of the Final Part II was setup into two three hour papers under the headings of "Statute Law of Nova Scotia" and "General Survey Law and the Description of Land".

Early in 1973, the Board of Examiners prepared and had printed a handbook setting out information, regulations, course descriptions, text references, registration and affidavit forms for surveyors in training, a copy of which was sent out to the members of the Association.

In December 1972, some thirteen candidates wrote one or more supplemental examinations. Also thirteen candidates wrote the legal exam, six being successful in making or exceeding the pass mark.

In May 1973, some eighteen candidates wrote the Intermediate Examinations of which nine successfully passed all subjects with a mark of 55% or more.

Eleven candidates wrote the Final Part I examinations, seven of whom failed one or more subjects. Two candidates wrote supplementals in the Part I Finals.

Only three candidates wrote the legal of the Part II Finals, all being successful.

During the year since November 1, 1972, ten candidates qualified themselves subject to becoming members of the Association, chronologically as follows:

<u>Name</u>	<u>Residence</u>	<u>Date of Certificate</u>
Arthur T. Bent	Middleton, N. S.	December 7, 1972
James Gary Glenn	St. Andrews, N. S.	December 7, 1972
Lester Berrigan	Bridgewater, N. S.	January 29, 1973
Willard MacDonald	Boylston, N. S.	March 31, 1973
Vernon Oliver	Fredericton, N. B.	April 10, 1973
John W. Ross	Stellarton, N. S.	April 10, 1973
James W. P. Grant	Dartmouth, N. S.	May 29, 1973
John C. Sutherland	Halifax, N. S.	May 29, 1973
Harold S. Lively	Enfield, N. S.	October 23, 1973
James B. Gillis	Middleton, N. S.	October 23, 1973.

FINANCIAL COMMITTEE REPORT - by E. P. Rice

Since the 22nd Annual Meeting the Financial Committee has made its first attempt at presenting the Association's financial picture in another perspective, other than simply an auditor's report.

The object of this is so that we may better plan for the future and to ensure that the revenues are put to their best use. As stated at the past two Annual Meetings it is quite conceivable that in ten years our revenues and expenditures will be in the vicinity of \$32,000 respectively per annum, so let us commence now to plan for our future.

The receipts were divided into two groups: *Ordinary Receipts* and *Extraordinary Receipts*. Ordinary receipts are funds derived solely from the members. Sources are: Dues, Annual Meetings, Membership Certificates, Professional Stamps and Miscellaneous. Extraordinary Receipts are funds derived from sources other than the members. Sources are: The Nova Scotian Surveyor - Advertising, Subscriptions to Surveyor, Interest - debenture and bank, Examination Fees and Annual Meeting - Exhibitor Fees.

This being the first venture of this sort no effort has been made to further define each of these sources at this time. It is also to be pointed out here that the dollars used in all cases are approximate only.



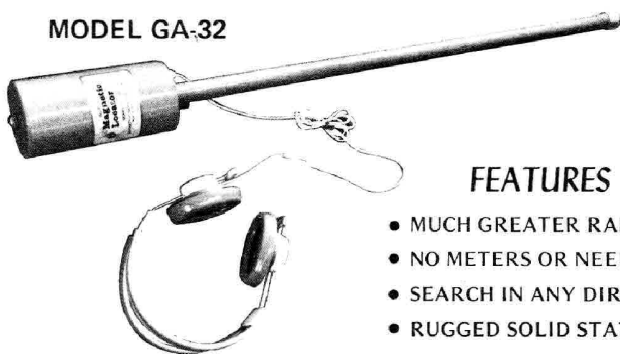
INFORMATION

DRAFTING, DESIGN, REPRODUCTION, SURVEYING, TECHNICAL SCHOOL
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DI-LAR, TRANSTEX & TRANSLAR PAPERS & FILMS; DRAWING TABLES.

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FEATURES

- MUCH GREATER RANGE
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- SEARCH IN ANY DIRECTION
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Introduction

The GA-32 is unequalled for locating iron markers, monuments, and even P-K nails.

The GA-32 provides greater range than our phenomenal Model GA-22 which essentially solved the iron marker location problem for the land surveyor. Although our GA series locators were designed primarily with the land surveyor in mind, they have been found to be superb for locating valve boxes, manhole covers, iron curb boxes, etc. With a GA-32 you can search an area much faster than you ever could before. You can search in any direction and sweep a wide area as you walk along. Magnetic objects are pinpointed by an increase in frequency of a 65 cycle idle tone heard in the headphones.

The GA-32 retains the same simplicity of operation as the GA-22. It has no needles or meters to watch and can be poked into brush, shrubbery, and snow banks. Asphalt, concrete, water, snow and ice do not affect its performance.

The GA-32 is unlike many other metal locators in that it detects the magnetic field of the marker. It will not respond to aluminum, brass, copper or other nonmagnetic materials. When the locator comes within range of an iron pipe or monument, a signal generated in the headphones guides the operator to the exact location. The GA-32 has a control so that its sensitivity can be adjusted over a very wide range to suit various situations.

The GA-32 is powered by four C-cell flashlight batteries and is painted a high visibility orange color.



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The locator is turned on by connecting the headphones.

Search is conducted by grasping the locator as illustrated in the photograph and sweeping with the small end of the locator near the ground. When the magnetic field of a marker is detected, the 65 cycle tone in the headphones increases in frequency. This signal is at highest pitch when the locator is directly over the marker so the latter can be easily pinpointed. Unquestionably, our magnetic locators are the simplest to operate of any kind of locator.

The GA-32 is similar to our Model GA-22 which land surveyors have found to be unequalled by any other locator for finding iron pipes and monuments. The GA-32 has the additional features of greater range and a frequency modulated tone in the headphones.

Ranges

The detection range is dependent on the state of magnetization of the marker. A 3/4" diameter iron pipe, 18" long can be detected at a distance of 1-1/2 to 3 feet.

The GA-32 has two magnetic-field sensors (flux gates) spaced approximately 20 inches apart. The two sensors are precisely matched and aligned so that when the instrument is exposed to a uniform magnetic field, such as the earth's magnetic field, the voltage generated by one sensor is balanced by the voltage generated by the other sensor.

When the small end of the instrument is brought near an iron pipe, one sensor experiences a greater magnetic field than the other sensor. The

output voltages of the two sensors are no longer balanced with the result that the tone in the headphones increases in frequency.

For normal and low sensitivity operation, the locator has a threshold level of magnetic-field difference between the sensors which must be exceeded before the signal frequency changes in the headphones.

When operating on high-sensitivity, the threshold level is reduced with the result that frequency changes appear due to misalignment and mismatch of the sensors. The reduction of the threshold increases the range of the instrument. A magnetic object is detected by the change in frequency of the tone in the headphones.

Superior performance is assured by Schonsted's patented HeliFlux® sensors and over 20 years experience building the world's finest space age flux-gate magnetometers.

Economy

The GA-32 will pay for itself many times over because:

1. Ground-level markers can be found quickly.
2. Markers too deep to be located by other means usually can be found with the GA-32.
3. Costly excavation for markers can be reduced to a minimum.
4. The GA-32 can be used in heavy brush or snow where other locators are difficult, or practically impossible to use.

SPECIFICATIONS

(Specifications subject to change without notice.)

Input Power:	Supplied by four C-cell batteries (1½ V each).	Weight:	Approximately 3 pounds including headphones.
Battery Life:	50 hours of intermittent operation.	Operating Temperature:	0°F. to 120°F.
Output:	Approximate 65 Hz idle tone in headphones. Tone frequency increases with gradient-field intensity.	Length:	42 inches.
Power Switch:	Power is turned on when the head-phone jack is plugged in.	Construction:	Rugged, all solid state.
		Finish:	High visibility orange color.

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To get a picture of how we stand with the above, the Financial Budget presented at the last Annual Meeting was split up into the above categories and displayed on a pie chart. (See Exhibit 1 Figure 1).

The first questions we should ask ourselves are: Is this ratio of 75% to 25% sufficient? Is it realistic? Will it meet our needs? One thing for sure is that if we are to maintain our dues at this present level, with the continual rising cost of living, then we must endeavour to increase our extraordinary revenues. The committee has not spent any time to date on how we may achieve this. We leave it with you for thought and consideration.

The above procedure was repeated with the expenditures. These were divided into the following five categories: a) Administration, b) Protection and Service to Members, c) Survey Standards, d) Public Service and e) Communication to public and members.

In determining the above categories, it was felt that these should be primarily along the lines of the goals and objectives of our Association. In this way we could then budget our funds according to the goals in order of priority.

Not being able to find definite goals defined by our Association, we resorted to the Association of Professional Engineers of Nova Scotia and an article which appeared in their magazine approximately two years ago. This article was published by their Financial Committee, and showed their resources in relation to their goals.

It is quite conceivable that our own goals would be set along similar lines; so with this in mind, the following qualifications were given to the expenditure categories:

Administration - General operating expenses of the Association.

Protection and Service to Members - Expenditures to protect the interest of surveyors in the practice of surveying in Nova Scotia.

Survey Standards - Expenditures to promote and improve the standards of surveys and surveyors in Nova Scotia.

Public Service - Expenditures to promote and improve relations between the public and land surveyors.

Communications - Expenditures to inform the members of the Association and advancements being made in the field of surveying.

The expenditure categories now defined, the process was repeated as with the revenues. Using the 1973 expenditure budget, the dollars were allocated to the various categories and displayed on a pie chart. (See Exhibit 1 Figure 2). Again the results left one with the question: Is this satisfactory? Will we meet our goals with this? It is the originator's personal opinion that these questions cannot be answered at the present time. We must first define our goals, secondly set priorities - thirdly, consult with the Secretary-Treasurer to fit the dollars in the right category. (A coding system will have to be devised for the expenditures).

As we have no past statistics available at present, it is impossible to say if Administration at 63% of the budget is realistic. The report given for A.P.E.N.S. indicates that their administration is 45% of the resources. Again it is the opinion of the originator that this pie chart does not show a healthy ratio, if the dollars are anywhere near correct, with respect to being allocated to the right category.

For a comparison the 1971 Financial Report of the Ontario Land Surveyors was broken down into similar pie charts (Exhibit 2 figure 1 & 2). In making the comparison you must consider that the writer made the breakdown without consultation from the Ontario Land Surveyors Association.

The next step was to set up an organization within the Association which would work towards implementing the goals. It was felt that under the present system, with a turnover of 50% of the councillors and the executive every 12 months, that it would be difficult, if not impossible, to achieve many of the goals.

Through the year a proposal was presented to council and subsequently amended, to one which has been approved in principle by council. (See exhibit 3 attached).

The suggested chart incorporates the various committees which are responsible for making the plans to see that the goals of the Association are attained as outlined above.

The object of this is to put more emphasis on the Committees and give them more status as this is the area where the work is being done. I must point out here, that a member could be on one or more committees at once and may also be on Council; however, the appointments for chairmen of the main committees should be approved by Council, and the duration of appointment should be for such time as Council sees fit or until the chairman resigns. The chart shown in Exhibit 3 is only one of many which may be used to ensure that our goals are attained.

To give this proposed organization status and prestige, it is suggested that during any year a minimum of four or five workshop meetings (of one-day duration) would be held. These meetings would also be held separate from the Council. The object here would be for the Committees to present their reports to the Vice-President, who in turn would take them to the Council for approval and/or recommendation. These workshop meetings will also serve to coordinate the work of the various Committees together.

It is quite conceivable from this that, in the future, councillors in most cases would come from the Committees, rather than the Committees coming from Council.

The following is a list of advantages and disadvantages:

Advantages:

1. Would allow more members to take an active part.
2. Reduce the amount of turnover of workers.
3. Will provide better planning.
4. Will provide better budgeting of finances.
5. Will provide more assistance for the President and Secretary-Treasurer.
6. Would establish goals and objectives.
7. Will allow more new members to get involved.
8. Establish more professionalism in our Association.

Disadvantages:

1. Length of time to implement - 2 years.
2. Difficulty of finding a large number of good workers.
3. Initially one person may be responsible for two or three committees.
4. For final implementation may require certain changes in the Act.

In recent months it has become apparent that such an organization is required now and, therefore, work has begun on defining the Duties and Responsibilities for each chairman and committee, with the hope that this organization will commence to function during 1974.

Once the committees have been set up our financial resources will be budgeted to each of the committees in order of priorities as dictated by Council. One might also hope that we will be getting more for our money with this sort of an organization.

Along with this organization, it is hoped that we will have a full time Secretary within two years to provide the necessary assistance to the Committee Chairman.

To conclude, we may sum up by saying that during the past year, we have arrived at a new way of presenting our Financial picture and in the process of doing this, have defined our goals for the present and restructured our standing committees into an organization which, it is hoped, will assist us in putting our financial resources to their best and full use. During the coming year we will be working towards (1) the establishment of a permanent Secretary for our Association within two years, (2) the establishment of permanent headquarters in the City of Halifax for the purpose of transacting the Association's business.

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EXHIBIT 1

EXPENDITURES. 1973

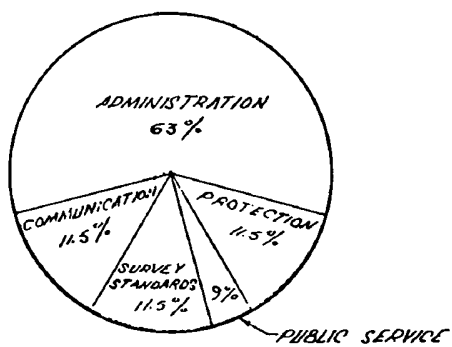


FIG. 2

RECEIPTS 1973

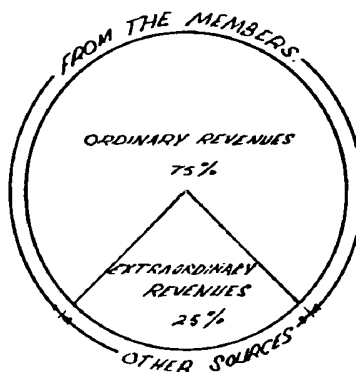


FIG. 1

EXHIBIT 2

ASSOCIATION OF ONTARIO LAND SURVEYORS.

RECEIPTS 1971.

RECEIPTS 1971

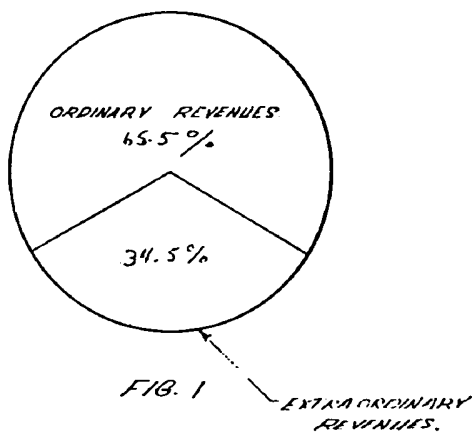


FIG. 1

EXPENDITURES 1971

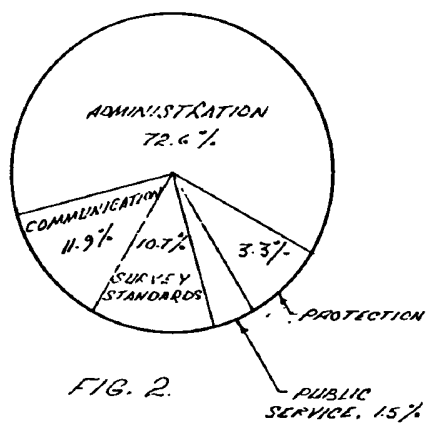


FIG. 2.

COUNCIL OF THE ASSOCIATION

PRESIDENT & CHAIRMAN OF COUNCIL
J. D. Chisholm

VICE PRESIDENT
E. P. Rice

SEC. TREAS
ADMINISTRATION
G. F. Clarke

FINANCIAL
COMMITTEE
E. P. Rice

BUILDING
COMMITTEE

PROTECTION
COMMITTEE
J. S. Pope

COMMUNICATIONS
COMMITTEE
W. E. Servant

SURVEY STANDARDS
COMMITTEE
Keith Aucoin

PUBLIC SERVICE
COMMITTEE
J. F. Doig

PROFESSIONAL
STATUS
A. F. Chisholm
Chairman
M. S. Chiasson
J. S. Dunning

PRIVATE
PRACTICE
W. S. Crooker
A. B. Grant
F. Thompson

N.S.
SURVEYOR
I. P. Macdonald
R. A. Daniels
and
many others

LIASON
COMMITTEE
D. K. MacDonald
Errol Hebb
S. E. Daykin
Murray Banks

EDUCATION
COMMITTEE
A. E. Wallace
Chairman
G. E. Streb
G. F. Clarke

REGULATIONS
COMMITTEE
D. C. Clark
G. E. Hingley

LEGISLATION
COMMITTEE
F. W. Roberts
Chairman
R. A. Dunbrack
K. W. Robb
M. A. Banks

PUBLICITY
COMMITTEE

COMPLAINTS
COMMITTEE
G. F. Clarke
J. C. Macinnes
B. A. Smith

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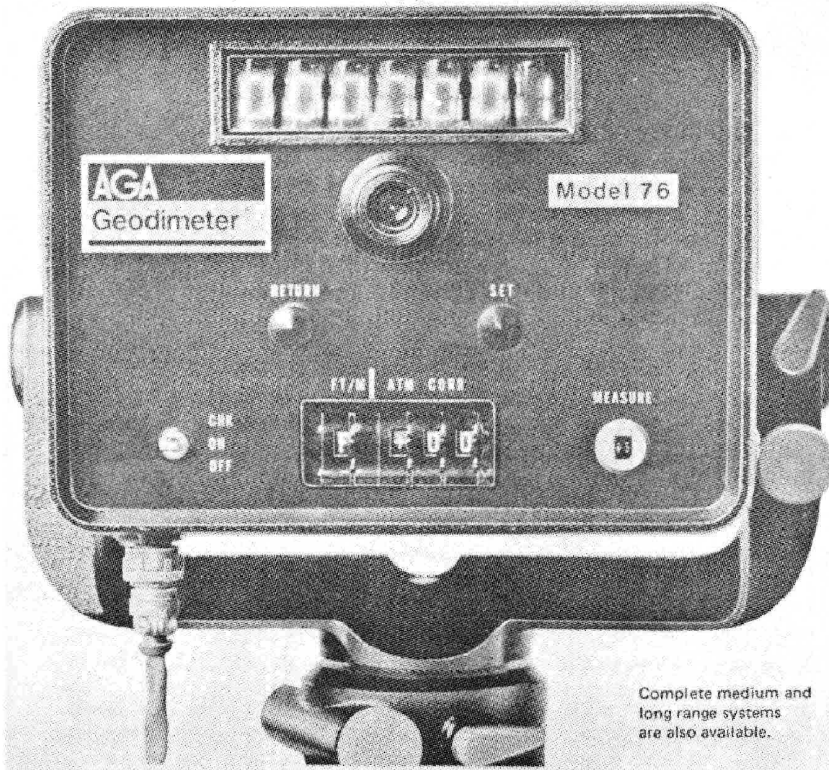
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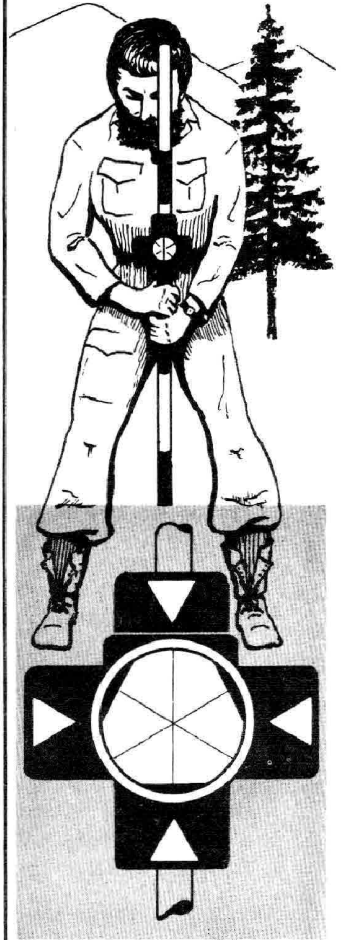
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Can be held with one finger! 12 volts D.C. from accessory rechargeable battery pack, (charger included). Instructions are printed on inside of cover of quality leather case.

Further details are available from Agatronics Limited, 41 Horner Ave., Toronto M8Z 4X4 or call (416) 252-4691.

LEGISLATIVE COMMITTEE REPORT - by James D. Chisholm

There are four amendments to the Act, Section 16A, Section 16B, Section 9 Subsection (1)(a) and Section 4 which were approved at a Special Meeting in June 1972, and at the Twenty-second Annual Meeting. These have been prepared in legal form suitable for submission to the Legislature and they will come before the Legislature during the Spring Session.

Proposals relating to Sections 7(2), 9(1)(b) and 9(1)(e), 15 and 19 of the Land Surveyors Act are under study by the Legislative Committee and Council.

A change to the Act, with respect to Partnerships and Companies, has been under study by this Committee for the past two years. The proposal was made by Mr. Servant with the intention of benefitting the public as well as the surveying profession. During discussion of this proposal, which became known as Amendment 3, not only has the original intent of the proposal become misconstrued, it has become evident that hasty change in the Legislation could seriously and certainly unintentionally harm the practice of some of our members. There is a lack of understanding and in many cases there is a lack of indifference among our members regarding this proposal; however, the importance of the intent has also become very evident.

I recommend that a standing Legislative Committee or, failing that, a special committee be appointed to finalize the matter for you both at the next Annual Meeting.

I recommend that the procedure would involve the preparation of a summary and the intent of the proposed amendment and a legal draft of the legislation proposed. The distribution of this material to the membership and a personal presentation at the respective Regional Meetings and then the final proposed legislation drafted in legal terms.

Two amendments to the Association's By-laws relating to Section 13 and 19 are under consideration by the Committee.

COMPLAINTS COMMITTEE - by Garnet F. Clarke

During the past while there have been fifteen complaints directed towards the Association. Three of these are by the public, they just can't seem to obtain surveyors. On further investigation it was found that there were possible legal problems. We have written letters to these individuals outlining some avenues which they might take and we hope we can satisfy them or at least give them a little bit of assistance.

There were two complaints concerning surveyor against surveyor. One has been referred to the Discipline Committee. The other one is in the state of limbo because the individual who made the complaint, on a further request for information by the Complaints Committee, did not pass on the information and so it was assumed he did not wish to carry it further.

There have been five complaints regarding fees paid by clients and for which no work has been given in return and also no satisfaction to the people with regards to correspondence or contact with the surveyor. Two of these have been referred to the Discipline Committee. I might add that there are four of these complaints, where the fees have been paid and no work given made against one individual.

There has been one case of where the surveyor did not perform, he had been engaged almost on a continuous basis for a client, because of the delay in time in finishing off a survey a complaint was made. We made contact with the individual, still nothing was done. We suggested to the client a number of avenues and he has taken one of them and as far as we are concerned this one is solved.

Another complaint is a suggested improper action by a surveyor. The owner of a property thought the surveyor acted in an improper manner. A number of suggestions were made to the owner but so far we have not had any reply from the owner.

Another complaint was regarding a surveyor laying out work for a client and an adjacent owner made a complaint. This is still under investigation.

The next complaint was against a surveyor surveying for a client. The execution of that survey placed in dispute a survey previously done for another client by that same surveyor. An adjacent owner made the complaint. There was alleged possible incompetence or conflict of interest. This is still under investigation.

The final one is by a client against a surveyor. There was a considerable delay between the time he was engaged to do a survey and the time he delivered the plan. This one was referred to the Discipline Committee.

REGULATIONS COMMITTEE - by David C. Clarke

During the past year a committee was formed by Council to represent this Association and work in cooperation with the Director of Surveys on the compilation of Regulations to accompany the Survey Act.

The Survey Act, Chapter 20, Statutes of Nova Scotia, assented to April 8, 1971, states in Section 11 that the Governor-in-Council may make regulations for the effective carrying out and administration of the Act:

- a) respecting coordinate monuments
- b) prescribing standards of survey
- c) respecting the recording of surveys
- d) prescribing the form and procedure for submitting reports, notes and plans of survey and other plans.

It was felt by your Executive that the Association should have its views on these matters made known while the Regulations are being compiled, thus the reason for this committee.

Work to date has involved collecting information and the establishment of liaison with the Department of Lands and Forests. Actual work on the Regulations is expected to commence in the near future.

LIAISON COMMITTEE - by D. L. Rix

During the past year I have attended two meetings with the Engineers and Architects. As a result of these meetings the Association of Professional Engineers has approved the formation of a separate Engineer-Surveyor Joint Committee. It is suggested that this Committee be composed of two or three representatives from each of the Associations and that it would meet on a fairly regular basis.

If our Association agrees to this Joint Committee, they are prepared to take the necessary steps to have it implemented and work out some of the other arrangements. I believe that there is a sufficient need to have this Joint Committee due to the overlay in the work performed by Surveyors and, in particular, Civil Engineers. I think we will always have areas where our work will overlap and there will always be little problems that will crop up. One is probably wise at the start if we can establish a working liaison prior to getting into any particular problem areas. I think a discussion on these matters prior to a problem arising will do much to see them solved quite easily.

If this Joint Committee is approved, the members, I feel, who should form that Committee of our Association, should be from the land surveyors that are in private practice and possibly other fields that the land surveyors work.

Mr. Rix read a letter from APENS which states:

"You are no doubt aware that the Council of Nova Scotia Architects Association, while not objecting, can see no reason for having a member of the Nova Scotia Land Surveyors Association included in the Engineer-Architect Joint Committee, and that Committee further recommended to the APENS Council that a separate Engineer-Survey Joint Committee be formed. This seems to be a reasonable suggestion in order that a mutual interest for concerned Engineers and Surveyors can be discussed and dealt with. We would suggest, therefore, that two or three representatives from each organization be nominated to such a Joint Committee."

STANDARDS FOR MONUMENTATION REPORT - by E. Hingley

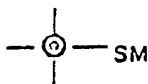
Identification

1. In this regulation:

(a) Standard Marker means:

A ribbed round iron or steel post 3/4" diameter, 4 feet long, pointed at one end and fitted with an aluminum identification cap on the top, and placed in the ground so that the identification cap is not more than six inches above the level of the ground.

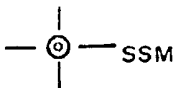
DESIGNATION ON SURVEY PLAN



(b) Short Standard Marker means:

A ribbed round iron or steel post 3/4" diameter, 24" or 30" long, pointed at one end and fitted with an aluminum identification cap on the top and placed in the ground so that the identification cap is flush with the ground level.

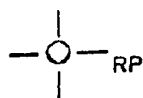
DESIGNATION ON SURVEY PLAN



(c) Rock Post means:

An aluminum identification cap fitted on a metal shaft at least 1/2" in diameter and 2 inches long and placed in solid bedrock so that the cap is flush with the rock level and the base of the shaft is securely wedged in the bedrock or concrete.

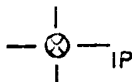
DESIGNATION ON SURVEY PLAN



(d) Iron Pin means:

A ribbed round iron or steel pin at least 3/4" diameter and at least 24" long.

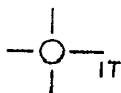
DESIGNATION ON SURVEY PLAN



(e) Iron Tube means:

A round iron or steel tube at least 3/4" diameter and at least 24" long.

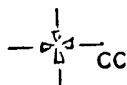
DESIGNATION ON SURVEY PLAN



(f) Cut Cross means:

A mark in the form of a cross, three inches in both width and length, cut into bedrock or a concrete area so that the width and depth of the cut mark is one-quarter of an inch across and one-quarter of an inch deep.

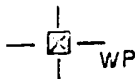
DESIGNATION ON SURVEY PLAN



(g) Wooden Guide Post means:

A wood post not less than four inches square and not less than four feet long pointed at one end and domed at the other and planted in the ground with stones so that the domed end of the post is not less than three feet above ground level.

DESIGNATION ON SURVEY PLAN



(h) Control Monument means:

A standard marker placed in concrete in a manner so that it will not be disturbed by frost.

DESIGNATION ON SURVEY PLAN



2. Where any survey of land is made for the purpose of defining, locating or describing any line, boundary or corner of a parcel of land:

- (a) at least one-half of the total number of angles and corners on the boundaries of the parcel of land shall be defined in the survey by a Class A monument, that is: (1) A Standard Marker, (2) A Short Standard Marker and (3) A Rock Post, with Short Standard Marker used only where ground conditions are unsuitable to place a Standard Marker;
- (b) the remaining angles and corners on the boundaries of the parcel of land shall be defined in the survey by a Class B Monument, that is: (1) an Iron Tube, (2) an Iron Pin and (3) a Cut Cross;
- (c) every angle on a survey line shown on a plan of survey established to make a closed traverse and determine an irregular boundary shall be defined in the survey by a Class B Monument, that is: (1) an Iron Tube, (2) an Iron Pin and (3) a Cut Cross.

3. Where a survey is made for the purpose of subdividing land

- (a) every exterior angle or corner, all angles at street intersections, the beginning and end of every curved boundary of constant radius, every angle in a street boundary, and at points on the limits of street and blocks at intervals not greater than 500 feet apart, all angles of lots or blocks exceeding 1 acre in area, at least one-half of the total angles and corners in the subdivision shall be defined in the survey by a Class A Monument, that is: (1) a Standard Marker, (2) a Short Standard Marker and (3) a Rock Post, with short Standard Markers used only where ground conditions are unsuitable to place a Standard Marker,
- (b) every lot corner and every angle in any boundary of a lot of block, and every angle on a survey line established to make a closed survey circuit, not defined in the survey in the manner prescribed by Clause "A" shall be defined in the survey by: (1) an Iron Tube, (2) an Iron Pin and (3) a Cut Cross,

4. Where a survey is made for the purpose of subdividing land and the subdivision is within an area monumented by Nova Scotia Control Monuments; and the subdivision is related to the Nova Scotia Control system by at least two independent ties; and Control Monuments have been placed throughout the subdivision, at points least likely to be disturbed, at a density of at least one Control Monument for every 10 lots or subdivision units, and the Control Monuments together with their coordinate values are shown on the plan:

- (a) every exterior angle or corner, all angles at street intersections, the beginning and end of every curved boundary, and at every angle in a street boundary, shall be defined in the survey by a Class A Monument that is: (1) a Standard Marker, (2) a Short Standard Marker and (3) a Rock Post, with Short Standard Marker used only where ground conditions are unsuitable to place a Standard Marker,
- (b) the remaining angles and corners not defined in the survey in the manner prescribed by Clause (A) need not be defined by a survey monument before approval of the plan of subdivision.

5. Where in the course of performing a survey of a property a monument from a previous survey is located this monument must be identified on the survey plan by its proper designation and be followed with an "F" in brackets to indicate that it was found.

GENERAL

6. The field notes and the plan of a survey of land shall show the position, type and form of every survey monument or object used to define a point placed, planted, set or marked in the survey.

7. The aluminum identification cap to be fitted on the Standard Marker, the Short Standard Marker and the Rock Post, is to be cast with the lettering: SURVEY MARKER, PENALTY FOR REMOVAL together with the surveyor's number or letters or other symbol which will identify the surveyor who placed the monument.
8. (1) The Secretary of the Association of Nova Scotia Land Surveyors shall maintain a register concerning the identification of monuments in which shall be entered the name of the surveyor, his number or letter or symbol used on his survey monuments.
- (2) If a number is used, it shall be the member's official number. If letters are to be used, same must be approved by Council and recorded by the Secretary.
9. (1) Where because of the nature of the location of a survey point it is impracticable to comply fully with the monumentation regulations, the point shall be defined by a monument that represents substantial compliance and shall be shown on the plan of the survey by a symbol, and a full description of the form and kind of monument.
- (2) Where because the nature of the location of a survey post, it is impossible or impracticable to define the point with a survey monument, it shall be witnessed by a survey monument as prescribed for the survey point, and shall be shown on a plan of survey by the proper symbol and letters and also the letters WIT.
- (3) A witness monument planted in accordance with Section 9 (2) shall, if the nature of the location permits, be planted at a distance not greater than 100 feet from the point witnessed.
10. Survey monuments may be designated on a plan of survey by symbols alone if the proper designation set out in the monumentation regulations is shown by the symbols and letters in a legend on the face of the plan.
11. A survey point may be defined by a monument of greater dimensions than those required by the monumentation regulations but the monument shall be of the same substance, form, and type as prescribed by the regulations and shall be designated on the plan of survey by the proper symbol and a full description of the monument.
12. Where a survey monument is placed to define a boundary, or corner in a wooded area, a wooden guide post shall be planted beside the monument.
13. Every plan of a survey performed and monumented according to Sections 2, 3 or 4 shall contain a surveyor's certificate certifying that the surveyor has complied fully with the monumentation regulations.

President Crooker then called on Mr. Bob Feetham to introduce the next speaker, Mr. Frank Shea, Nova Scotia Department of Mines.

SATURDAY, NOVEMBER 3, 1973 - 9:30 a.m.

President Crooker opened the Saturday morning meeting with a business session. The various Committee Reports that were given the previous day were brought back so as to give the general membership a chance to discuss any thing they might wish to regarding the reports.

As Chairman of the Legislative Committee Mr. Chisholm was asked how this would affect the new Committee that was being set up, and hereplied that until the By-laws of the Association are amended to suit any standing Legislative Committee, he would assume that the Vice Chairman would still continue to be responsible for that Committee but would like to have it set up as a standing Committee and perhaps the Vice Chairman would still continue to be a member of it.

He was also asked what happens to the reports of the Legislative Committee that the members know nothing of what is going on until the next Annual Meeting. Mr. Chisholm agreed with the question, and stated that there are two main factors in this as he saw it: (1) to move towards the appointment of a permanent Secretary, someone to coordinate the work of these Committees and (2) to see that the information goes back to the membership. There are two avenues through your communications; one is through your Regional Meetings and another is through The Nova Scotian Surveyor. Next year I will suggest to Council that they consider publishing all these reports prior to the Annual Meeting and that they will be mailed out to the membership on request or just as a standard procedure. This way they will have a chance to review the reports before they come to the meeting.

Mr. Crooker, on behalf of the Liaison Committee, was asked the question of what the Association's feelings were on an Engineer, who is not licensed to practice land surveying, signing a Surveyor's Certificate. Mr. Crooker replied that the Association would feel that this was illegal. It was suggested that this should be brought to the attention of the Complaints Committee.

The subject was also brought up about people in the Province who are not members of the Association that can legally do surveys. It was suggested that a list be typed up and published in The Nova Scotian Surveyor of the people entitled to practice land surveying.

Mr. Crooker asked the members what they felt about the possibility of broadening the Act or staying just within the definition of boundaries.

Mr. Dunbrack made the statement that in the State of California they had a Model Law for Surveying.

Mr. Schofield commented that in the States they have what is called a National Council of Engineering Examiners and it covers surveying. A part of the reason for the National Council is to prepare better laws for all the States. With approval of the whole Engineering profession the scope of the work of the surveyor has been increased to a considerable extent. Mr. Schofield said that he would send the Association a copy of the Model Law plus a copy of the Massachusetts Act.

Mr. Feetham stated that if there is a lawyer within twenty miles of the site of the survey, then he has the sole responsibility of preparing the deed but the description should come from the Surveyor.

The question was asked that if a surveyor prepared a plan for a client, and he in turn prepares a description of the property survey, what obligations is there on the part of the lawyer to use this description in his deed? In answer to this question Mr. Crooker said that the lawyer has to send the deed back dated and the surveyor has to check the description and certify the plan before it is transacted.

From a question asked about the follow-up on the Architects and Engineers Committee, Mr. Crooker replied that Mr. Rix was to continue on with this Committee and follow up on the terms of reference. It was suggested that this new Committee should be composed largely of surveyors in private practice.

Al Wallace was called upon to explain some of the terms of reference concerning the Monumentation and Standardization Committee.

Mr. Dunbrack asked Mr. Wallace where they got their information for their report. He said they had looked at possibly four Acts and Regulations throughout the Country - Dominion, New Brunswick, Ontario and one of the Western Provinces.

It was suggested that the symbols used should be standardized a little more in the proposal, also some of the other items covered should be standardized. Mr. Wallace said that he thinks there should be different symbols for different monuments.

SATURDAY, NOVEMBER 3, 1973 - 2:00 p.m.

REGIONAL COUNCIL MEETING REPORTS -

CAPE BRETON - by Victor J. Comeau

We had two Regional Meetings in the Cape Breton area. These consisted of a very short business meeting followed by informal talks between surveyors. Those who attended were very enthused by this type of meeting, where they can learn a little bit more from the other surveyors. Approximately ten to eleven surveyors attended these meetings. One of the meetings was held on Baddeck Bay on a cruise boat.

EASTERN NOVA SCOTIA - by David Clark

One meeting was held in the Eastern Region this past year. It was held in Antigonish during April and fifteen members of the Association were in attendance. Considerable discussions were held on various subjects including the revisions on the voting procedures in the Association By-laws. The establishment of an Education Committee and suggested revision of the requirements for non practicing membership. All members at the meeting were strongly in favour of an Education Committee. It was suggested that continuing education be given a high priority from the Committee being formed. The meeting was generally in favour of Council looking into non practicing membership, with a view to allowing members resident this province the privilege. Nomination of candidates was held and two names were presented to the Nominating Committee for election of Councillor at the Annual Meeting. After some further discussion the meeting adjourned.

HALIFAX CITY AND COUNTY - by Bernie Smith

Three meetings were held during the year with a good turn out each time. The first was on April 4, which included a discussion on the ARDA III program. Section of the By-laws pertaining to election of officers was discussed. We discussed our ads in the yellow pages of the telephone directory and the establishment of a Legislative Committee. On October 10, we had another meeting and we discussed the Standardization of Monuments, minimum rate structure, Surveys Act and reorganizational chart. Most of the members felt that we should have another meeting before the General Meeting, so we had one on October 30, and we talked about the proposed increase in dues, formation of a Legislative Committee and the Surveys Act.

WESTERN NOVA SCOTIA - by James F. Doig

One meeting was held in Lawrencetown last March. Three items formed the agenda: (1) we discussed the advantages and implications of splitting the Region longitudinally and Mr. Elliott agreed. As a result of that, draw a detailed plan for consideration and presentation to Council. (2) There was considerable discussion on the present ARDA III program and problems relating to financing of the work and perhaps even more difficult the inspection and proper execution of it. (3) There was considerable discussion about the needs for the Department of Highways to employ a registered land surveyor in that capacity. Steps seem to be underway to remedy this problem.

INSTALLATION OF OFFICERS -

Mr. Crooker introduced the new executive and asked them to come to the front of the room so that they could be recognized.

The Past Presidents escorted Mr. J. D. Chisholm, the new President, to the platform and after receiving congratulations Mr. Chisholm gave his acceptance speech.

NEW BUSINESS

Mr. Feetham moved that "the Annual Fee for Membership in the Association of Nova Scotia Land Surveyors be increased from \$30.00 to \$50.00 per year in the following manner:

Dues as presently set forth in the By-laws of \$30.00, plus a levy of \$20.00 which shall include the \$4.00 per member payable to the Canadian Council of Land Surveyors. Dues presently set forth in the By-laws for Associate Membership and Junior Membership shall remain the same." Seconded by Mr. Dunbrack. Motion carried.

Mr. Grant moved that a resolution be made that:

"Be it resolved that this General Meeting request the incoming Council to form a standing Legislative Committee of four members whose function would be to examine the viability of our Act, By-laws and Resolutions and to discuss these with our Solicitor and report their findings within three months to the Council." Seconded by Mr. Dunbrack. Motion carried.

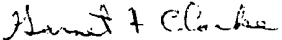
The guests thanked the Association for the hospitality shown them while at the meeting and wished them best regards for the coming year.

President Chisholm, on behalf of the Association of Nova Scotia Land Surveyors, thanked the Exhibitors for their contribution to the meeting, both financially and from the technical standpoint of new equipment. This is a very important part of our meeting.

On behalf of the Mayor and Town Council of Amherst the Association was invited to hold its Twenty-Fourth Annual Meeting in Amherst at the Fort Cumberland Hotel.

Mr. Crooker thanked, on behalf of the Association, Dave Hiltz for the wonderful work he had done in laying on this Convention and also thanked Mr. Hutchinson for the concept of displaying plans.

Respectfully submitted,


Garnet F. Clarke,
Secretary-Treasurer.

**** J. D. CHISHOLM - PRESIDENT ****

ACCEPTANCE SPEECH

Gentlemen:

It is indeed an honor and a privilege for me to be elected President of this Association. I will, in so far as my ability and my time permit, try to provide good leadership and to represent the views of the membership whenever and wherever I have the opportunity.

It may not be necessary to detail the various important activities of the Association to be continued, the various standards to be maintained, and the goals for which we should strive - all of which I hope with the cooperation and support of our Council will be implemented as a foregone conclusion.

As the role of the surveyor has changed and is continuing to change, so changes his requirements from the Association. An area of concern which I feel requires our attention centers around the ability of our Association to meet the variety of present-day requirements placed upon it by the membership. Dangers facing an Association which is no longer able to meet the requirements of its members include: loss of vitality, fragmentation and eventual destruction. The basic foundation formulated by the fathers of the Association was sound. Past Executives and active members have made enormous contributions in updating our methods of operation as well as our Land Surveyors Act and the Association By-laws. These contributions have been made in an effort to meet these changing requirements. Although the Association is in no imminent danger, I believe it is appropriate that we plan for the future. Elements of this Association development plan should include:

An assessment of the various present-day services which we as members, as well as the general public expect to receive from our Association.

Decisions regarding the role of the Association in providing these services.

Development of a method of operation and the associated By-laws to control this operation which will better enable our Association to meet these requirements and provide these services.

Experience shows that an effective plan cannot be developed by experts or by special committees or a combination of the two operating within a vacuum. It will require the interest and participation of every member of this Association. I would like to stress the importance of your participation in planning the future path which this Association will follow.

This year promises to be no less interesting than past years, in so far as the activities of our Association are concerned. Changes in the methods of operation are in the wind. I sincerely hope that these changes will be made through membership participation in planning, and will result in an Association with new vitality, an Association which is better able to serve the needs of its members and the general public, as well as the surveying profession in this province.

** MEMBERS ATTENDING 1973 23RD ANNUAL MEETING **

George T. Bates	W. S. Crooker	R. J. MacDonald	James L. Ryan
J. E. March	Robert A. Daniels	G. F. MacDougall	Jack Ryan
R. E. Millard	Ronald C. Dearman	Ian MacInnis	Robert F. Sarty
L. T. Schofield	J. F. Doig	J. C. MacInnis	Walter E. Servant
Murray F. Cossitt	Roy A. Dunbrack	C. J. MacLellan	James C. Sherren
Herbert Martell	A. T. Edgett	James E. MacNeil	Burney A. Smith
Arthur H. Abbott	Robert L. Feetham	M. F. MacNeil	Lewis O. Smith
W. R. Atkinson	J. Gary Glenn	S. E. MacPhee	Thomas W. Smith
Murray J. Banks	Allison B. Grant	F. W. McKeown	Sterling G. Snow
Ernest F. Boehk	Athol C. Grant	W. F. Mason	George E. Streb
Gerald B. Boylan	Gary G. Grant	R. F. Melanson	George W. Swanburg
Bernie Campbell	Everett B. Hall	W. Bruce Millar	Victor E. Swinamer
Burton L. Cain	J. E. Hanifen	Robert A. Miller	John Sutherland
A. R. Cameron	M. W. Hartlen	Philip M. Milo	William A. Thompson
Brian J. Cameron	L. M. Harvey	F. W. Newberry	Forbes Thompson
Hoyes A. Cameron	B. F. Hebb	R. E. O'Brien	J. L. Veilleux
Stuart W. Cameron	E. B. Hebb	I. J. Osmond	Frank Yates
Cyril B. Carlin	David R. Hiltz	Brian D. Peel	Alfred E. Wallace
Robert K. Carrick	G. E. Hingley	John S. Pope	E. J. Webber
W. E. Chambers	Gerald D. Hughes	G. A. Pottier	Howard K. Wedlock
A. F. Chisholm	Lyman E. Huskins	Don Purcell	Ronald G. Wentzell
J. R. Chisholm	F. C. Hutchinson	Don Parker	Arthur A. White
J. D. Chisholm	D. L. Johnston	Edward P. Rice	S. E. Daykin
David C. Clark	Neiff Joseph	Donald L. Rix	Chester W. Gehue
Garnet F. Clarke	J.A.C. Kaulback	K. W. Robb	Richard E. Greene
Victor J. Comeau	W. S. Laurence	F. W. Roberts	Donald J. MacNeil
Michael J. Crant	Ivan P. Macdonald	John W. Ross	Vernon G. Oliver
David J. Crooker	K. P. MacDonald		

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

FINANCIAL REPORT

OCTOBER 1, 1972 TO SEPTEMBER 30, 1973

	<u>1973</u>	<u>1972</u>
Cash on hand October 1, 1972	\$ 3,608.53	\$ 3,732.08
Receipts	14,584.06	11,378.88
Expenditures	\$14,874.58	\$11,502.43
Cash on hand September 30, 1972	<u>3,318.01</u>	<u>3,608.53</u>
TOTAL	<u>\$18,192.59</u> <u>\$18,192.59</u>	<u>\$15,110.96</u> <u>\$15,110.96</u>

The Cash on hand September 30, 1973, consists of the following:

1) Nova Scotia Savings & Loan Debentures (5 years @ 8%)	\$ 1,800.00
2) Bonus Savings Account	2,697.85
3) Current Account	-1,260.84
4) Cash held by Secretary-Treasurer	<u>81.00</u>
	<u>\$ 3,318.01</u>

DETAILS OF RECEIPTS

	<u>1973</u>	<u>1972</u>
Dues: - Current	\$ 6,626.75	\$ 6,401.65
Arrears	285.00	360.00
Associate	15.00	30.00
22nd Annual Meeting	4,084.70	2,319.51
Examination Fees	1,606.25	1,485.02
The Nova Scotian Surveyor	1,091.00	611.75
Subscriptions	13.00	-
Professional Stamps	32.00	45.50
Interest on Debentures	18.00	18.00
Interest on Savings	30.54	78.55
Membership Certificates	3.00	18.00
Canadian Council of Land Surveyors	764.00	-
Miscellaneous	<u>14.82</u>	<u>10.90</u>
TOTAL RECEIPTS	<u>\$14,584.06</u>	<u>\$11,378.88</u>

DETAILS OF EXPENDITURES

	<u>1973</u>	<u>1972</u>
22nd Annual Meeting	\$ 5,759.04	\$ 3,292.67
Board of Examiners	2,428.25	1,573.03
The Nova Scotian Surveyor	1,393.49	1,451.05
Professional Stamps	30.07	28.60
Postage	250.82	410.10
Stationery	299.40	167.78
Council Meetings	405.87	460.43
Stenographic Services	260.00	422.00
Delegates to Conventions	1,542.70	1,090.71
Telephone and Telegraph	30.00	39.11
Solicitor's Fees	-	-
N.S.F. Cheques	102.00	-
Bank Charges	3.00	7.20
Honorarium	500.00	500.00
Flowers	12.42	33.70
Roll of Members	342.74	313.98
Addressing Machine/Plates	8.39	590.09
Refunds	4.50	-
Regional Meetings	37.60	28.00
Fee Schedule Book	457.89	323.57
Delegates to Provincial Presidents' Meeting	209.00	-
Levy to Canadian Council of Land Surveyors	756.00	-
Bank Charges - Cheques	-	7.12
Donations	-	-
Dictating Machine and Accessories	-	207.21
Special General Meeting	-	146.39
Land Surveyors' Act Book	-	265.45
Miscellaneous	41.40	144.24
TOTAL EXPENDITURES	<u>\$14,874.58</u>	<u>\$11,502.43</u>

Respectfully submitted,

G. F. Clarke,
Secretary-Treasurer.

Audited and found correct by:-

Auditors: 
J. F. Archibald
Ernest Boehk



MICRORANGER

Range: 3 feet to more than 1 mile



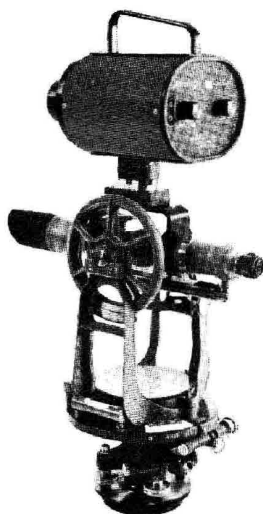
The new low cost MICRORANGER is the latest device to be offered as part of the growing family of K&E EDM systems. The low cost and simplicity of the operation of the MICRORANGER now make it possible for any surveyor to use an electronic distance measuring unit. The operational cost savings will more than pay for the instrument cost in a short period of time. Only a few seconds are required to measure any distance from three feet to more than one mile with an accuracy of ± 0.02 ft. +2ppm.

UNIQUE SYSTEM CONFIGURATION

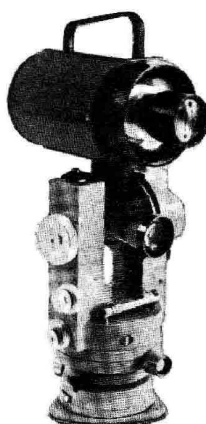
The MICRORANGER is physically contained in two units. A head unit houses the transmitting and receiving electro-optics. This unit is designed to conveniently mount on most theodolites, transits and levels. A control unit houses the display, controls and computer circuitry. The two units are interconnected by a cable.

The uniqueness of this design is a decided advantage to users. It is not necessary to make an angular sighting through the telescope of a theodolite or transit, then remove it from the tripod, and remount a distance measuring device. By securing the head unit directly to the telescope, not only is there an appreciable improvement in measurement speed, but an attendant reduction in the possibility of measurement inaccuracy.

MICRORANGER
mounted on transit



MICRORANGER
mounted on theodolite



MICRORANGER
mounted on builders'
transit-level



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Halifax,
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WEIGHS 4 LBS. PER INSTRUMENT
MEASURES 100 FT. TO 20 MILES EVEN IN FOG



With an accuracy of
 $.05 \text{ ft} \pm 1:100,000.$

Has instant on

FM radio even
when measuring

Can run on flashlight
cells or any 12v source

Measuring time 3 mins.

Costs \$4000 for
a 2 instrument system

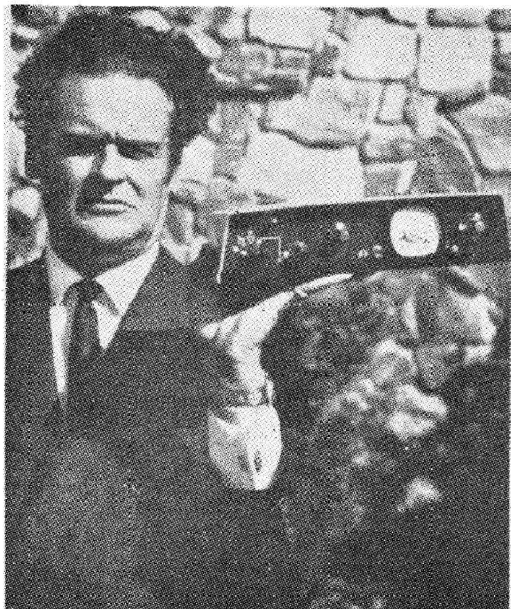
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for size and cost

The CA1000

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