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PRESIDENT’S MESSAGE
by Robert F. Baker, A.L.S.

Seven months have lapsed since we commenced the implementation stage of our Strategic Plan and at this time, I can say with confidence that we are making significant strides in reaching some of the goals that were identified by the members during the audit phase.

There is no doubt in my mind that we could not have achieved the level of progress without the continued dedication and support of members, committees, Council, consultants and administration staff. To these persons, I extend a sincere vote of thanks for their dedication and support.

The statements were made at the commencement of the process that the outcome would strengthen the Association as a resource to its members and target partners and also, that it would allow a clearer story to be told internally and externally as well as position the members more effectively through education and allow for the continued practical development and enforcement of professional standards.

These statements identified a number of areas that needed to be addressed and provided Council and the committees with many challenges, one of which was the development of a revised volunteer Council structure and operating format. Members serving on Council and the committees over the past several months can attest to the fact that there has not been a shortage of challenges or meetings. I believe these meetings were essential in order to arrive at terms of reference, action steps, and budgets so that ownership would be accepted by the committees and would be sanctioned by Council. One has to realize that the focus and direction laid out in the Strategic Planning Process is not cast in stone, but should be adjusted or massaged in order that the membership is comfortable with the direction and accepts ownership.

In my opinion, committees of the past were placed at a disadvantage in that terms of reference were established after our Annual General Meeting. There were no action steps, accountability, or time lines attached, and any budgets created for a committee was four months out of date. We now have a financial year end coinciding with our Annual General Meeting, the terms of reference, action steps, responsibilities, timelines, committees and their chairmen are all in place prior to the Annual General Meeting. This should provide the committees with the opportunity to start operating early in the new fiscal year and alleviate the committees compressing all their deliberations into the months of September to January.

On the whole, I am pleased with the way things are progressing. There has been more "soul searching", with some committees but in the end, the direction taken seems to be very positive. Committees are the very "back bone" of this Association and I am positive that taking the extra time and having the numerous meetings to sort through the details will serve the Association well in the years to come. Once we have gone through the first year’s cycle, utilizing what we have designed this year, we will no doubt, sit back and say, "why didn't we do this before?"

The fruits of our labour of the past several months which I have alluded to previously, show up elsewhere in this publication as terms of reference of the committees.

I am looking forward to seeing you at the Annual General Meeting at the Westin Hotel in Edmonton on April 15-17, 1993.
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ASSOCIATION NOTES

New Members

601 NECYK, Barry D.

Barry Necyk was born at Vilna, Alberta on September 13, 1951. He graduated from Vilna High School in 1969 and went on to attend NAIT (Electronics Engineering) and the University of Calgary (B.Sc. - specialization in Survey Science).


Barry also holds his C.L.S. commission and is serving on the Convention and Social Committee of the ALSA for the 1992/93 term.

Employment history includes working for the Federal Regional Surveyor's Office, computer use (GIS and survey computations), hydrographic and construction surveys.

Running, music and record collecting, and carpentry are a few of Barry's leisure activities. Barry is married to Lori and they reside in St. Albert with their two children, Bradley and Graham.

602 ROSS, Brian D.

Brian Ross was born in Edmonton, Alberta on August 28, 1955. He attended Ernest Manning High School, graduating in 1973. A diploma in Survey Technology was received from SAIT in 1979 and a B.Sc. in Surveying Engineering from the University of Calgary in 1983.

John Hughes, A.L.S. (1985-87), and Stephen Green, A.L.S. (1990-92) served as Brian's principals. "High Resolution Site Surveys in an Offshore Environment" was the topic of the technical report submitted as part of the qualifying examination. Commission as an Alberta land surveyor was received on February 3, 1993.

A Professional Engineer. Brian also received his commission as a Canada Lands Surveyor in 1989.

Employment history includes three years conducting offshore surveys for Dome Petroleum in the Beaufort Sea; three years in the fields of legal surveying (mostly oilfield) and engineering in Alberta.

Hobbies include sailing and golf. Brian, his wife Susan, and their two children, Alexis and Lucas reside in Calgary.

603 MICHE, Robert G.

Bob Michie was born in Cheshire, England on June 11, 1957 and emigrated to Canada in September 1969. He graduated from Richmond Senior High in British Columbia in 1976 and went on to receive a diploma in Surveying Engineering from BCIT in 1977 and a B.Sc. from the University of Calgary.

Grant Cross, A.L.S. served as principal since August 1989 until Bob received his commission on February 23, 1993. The topic of the technical report submitted as part of the qualifying examination was "Targeting for Machinery Surveys". Bob also held commission as a Canada Lands Surveyor.

Employment history includes legal surveys in the lower mainland of B.C. with David Lyon, BCLS from 1978-79; topographic and construction surveys in the Prince George, B.C. area and legal, topographic, and construction surveys in the Edmonton area while employed with Walker Consulting Group Ltd. from 1988 to the present time.

Bob enjoys cycling, hiking, and spending time engaged in family activities with his wife Melinda and their six children; Shea-Elle, Shantara, Alyasha, Jareed, Adam, and Leearia; ranging in age from one to seven years.
Water Boundaries Seminar

Two one day seminars on the topic of Water Boundaries were held in Edmonton on January 19th and Calgary on January 21, 1993 respectively. The seminars were sponsored by the Alberta Land Surveyors’ Association and featured Ted Allen and Carmen Jarrah, both of Forestry, Lands and Wildlife, Public Lands Division.

The program consisted of a general discussion of the principles of riparian ownership and the identification of water boundaries in the morning session. These principles and their applications were then illustrated in practical terms through the examination of three case studies in the afternoon session.

Throughout both sessions, one message was emphasized over and over again, that message being that no water boundary determination can be correctly effected without proper, detailed and exhaustive research. As Mr. Allen said in his preamble:

"...we are not here to talk so much about water boundary law. We are here to talk about research in support of that law."

To this end, Ms. Jarrah proceeded to illustrate a checklist of information sources that the Water Body Enquiry Subsection of the Technical Services Section uses during their investigations into water boundary questions. Depending on the circumstances of the case, these sources would include all additions of the township plans, all subsequent survey plans, the original bank traverse notes, all available aerial photographic and surveying as well as the current and historical certificates of title and other documentary evidence. It was stressed that the original crown grant or the "fiat" from which the grant was drafted would provide the best evidence of what the crown had originally intended to convey at the time the parcel of land was created. The surveyor in his determination of a water boundary or any other boundary for that matter, should not restrict his investigation to the current certificate of title only. Descriptions on titles have been known to change as ownership of a parcel evolves and while it is understood that the Torrens system of land registration, on which our Alberta Land Titles system was based, guarantees the quality of title, it does not represent to extend this guarantee to the extent of title.

If a moral could be drawn from the arguments presented during the seminar, I would suggest that it could be summarized in two statement made in Ted Allen’s opening remarks:

"Research into the evolution of a water boundary and riparian ownership is fundamental to good practice.

If we do not know where the boundary is before we go out the door then we should stay home."

This seminar was very well received with approximately 69 participants attending the Edmonton edition and another 48 individuals comprising the Calgary audience. It was interesting to note the number of non-surveyors who attended these proceedings, which would indicate a growing interest in government, industry, and society in general in the ownership of the beds and shores of water bodies and wetlands.

Mr. Allen and Ms. Jarrah are to be commended for their time and effort in preparing and presenting this excellent seminar.

The Edmonton edition of this seminar was recorded on video tape and is available for the membership on a loan basis through the library of the Alberta Land Surveyors’ Association.

H.D. MACAULAY, A.L.S.

Job Costing and Profitability Workshop

Held at the Edmonton Petroleum Club on February 6, 1993, eleven of us were in attendance to experience the downloading of our presenter, Stan Longson, A.L.S.

Stan described the system that he uses to help him manage the Walker Consulting Group. This software is called "Wind-2" and it was developed to assist in the financial management of Architectural and Engineering firms. The system is driven by the input of time sheets and direct costs related to specific jobs. The output goes to the areas of general ledger, accounts payable, payroll, and project costing.

In the very competitive marketplace of the 1990's, it is increasingly important for Alberta land surveyors to determine and control their costs, to set reasonable prices, and to find the net profit or loss on each job as soon as it is completed. To do this, surveyors are increasingly turning to job costing systems where the final costs of a job can easily be compared to the quote. Job costing is an accurate way to improve estimating skills for future work. It also allows accurate decisions to be made during a year to reduce costs, forecast results, and deal with profits.

Our small group asked many questions and discussed very openly the concepts that were presented. We ended up with outlining the systems that each of us use.

Many thanks to Stan for opening up his system and sharing some of his company secrets with us.

DON GEORGE, A.L.S.

Surveyors in the News

G.K. Allred, A.L.S. has been elected as Chairman of the Edmonton Metropolitan Regional Planning Commission.

C.W. (Wally) Youngs has been nominated for Honourary Membership in the Federation Internationale des Geometres.

Your day goes the way the corners of your mouth turn - SMILE

DON GEORGE, A.L.S.
Marketing Management Workshop

The Edmonton session of the Marketing Management Workshop provided a full day of personal and corporate evaluation for the 25 participants.

The workshop started off with some of the things people hate to do, such as think, listen, write things down, meet new people, and speak in public. This was tempered with determining the market in which you are offering your surveying services and the way you perceive yourself, your services and your market.

Communication and customer service were then explored with respect to developing and implementing a goal/objective oriented marketing plan.

The workbooks provided to each participant provided a step by step procedure for identifying both your market and your market advantages and then building a Marketing Plan complete with goals, objectives, strategies and an action plan.

The workshop leader, Mr. Bruce Hertz of the Harcourt Mathews Corporation Ltd. was prepared, organized, and punctual. Thank you Bruce, for an interesting and informative session.

WAYNE WESZOLOWSKI, A.L.S.

Parcel Mapping on Canada Lands

The Regional Surveyor’s Office, Legal Surveys Division, Energy, Mines and Resources, Canada (EMR) has digital parcel mapping coverage for most of the larger Indian Reserves in Alberta and for the Towns of Banff and Jasper. The files are in DXF format and may be purchased at a cost of $540 a file.

The digital data for the reserves are on one to four files. The Town of Banff is comprised of three files and Jasper has two.

Data files sold are provided "as is" and are protected under the Copyright Act. The data is sold for the sole use of the purchaser. If the purchaser wishes to use the data for retailing or other purposes, a licensing agreement may be negotiated with EMR.

Tom Swanby Honoured

At the present time the Regional Surveyor’s Office is capturing parcel mapping data in digital format for the remaining Canada Lands in Alberta and is also transferring its data to a format which will enable enhanced GIS applications.

Anyone wishing further information on the purchase of files can contact Len Dolan of the Alberta Regional Surveyor’s Office at:

Energy, Mines and Resources, Canada
Room 930, Canada Place
9700 Jasper Avenue
Edmonton, Alberta. T5J 4C3
Phone: (403) 495 7348
Fax: (403) 495 4052

P.O.T. "Poor Ole Tom"

It was my privilege to attend, on behalf of our Association, a P.O.T. (Poor Ole Tom) Holt roast given on January 28, 1993 in celebration of Tom’s retirement from Alberta Transportation, Property Services Branch.

The evening was indeed humorous as many of Tom’s acquaintances and former co-workers from his days of surveying for the Federal Government and more recently with Property Services, recounted events arising from their association with Tom. It is possible that there may have been some truth to some of the events as they were recounted and it was all good fun trying to separate truth from fiction. Tom and his wife Lois, were good sports throughout and received many fine gifts.

We wish to thank Tom for his time which he has generously donated throughout his term as a member of our Association. His thoroughly practical and honest approach to matters with which he dealt, both while on Council and on committee, are greatly appreciated.

Duncan Gillmore, A.L.S. was the master of ceremonies and did a masterful job. Thank you to Carmen Chicak, Michele McKay, and Martin Rossman, who I understand were guilty of organizing this event.

Happy retirement to Tom and Lois.

FRANCIS PREPONTAINE, A.L.S.

Tom Swanby, Registrar of the Western Canadian Board of Examiners for Land Surveyors since its inception in 1981, retired from the position on April 30, 1992. In appreciation for his years of exemplary service, the Board arranged for Tom to be presented with a commemorative plaque.

At a ceremony held at the University of Calgary on September 24, 1992, Dr. Alec McEwen, the new Registrar, presented the plaque to Tom on behalf of the Board. On the same occasion, Tom received additional recognition and a presentation from the Department of Geomatics Engineering for his past contribution as a sessional instructor in the cadastral studies area of the undergraduate program.

DR. ALEC MCEWEN
Employment for U of C Geomatics Engineering Students

On behalf of the Geomatics Engineering Department, I am inviting you to register your student employment needs with us. A job database is being created for the students to access, and then they will be getting in contact with you. To assist you in identifying the level of student, please refer to the following profiles:

I: First and Second Year Students
   (summer employment)
   - have taken introductory math, physics, engineering, computer programming;
   - usually have limited job experience; and
   - are suited for the beginning assistant level.

II: Third Year Students
    (summer employment)
    - have taken introductory courses in geodesy, photogrammetry, adjustments, surveying measurements, geomatics;
    - usually have some job experience; and
    - are suited for the intermediate assistant level.

III: Fourth Year Student
     (graduating, resume booklet available)
     - have taken a full complement of engineering, geomatics and mapping subjects;
     - have significant job experience; and
     - are ready to be trained under the supervision of an engineer or surveyor and can accept significant responsibility.

IV: Graduate Student
    (M.Sc.; Ph.D.)
    - strong math modelling and computer skills; and
    - are strongly specialized individuals capable of developing new systems and implementing new methodologies.

Contact: Employment Coordinator, Department of Geomatics Engineering
         The University of Calgary - Tel: 220-5834; Fax: 284-1980

Are You Attending?

April 15 - 17, 1993
Alberta Land Surveyors' Association Annual General Meeting - Westin Hotel, Edmonton

May 2 - 6, 1993
Seventh International FIG Symposium on Deformation Measurements together with Sixth Canadian Symposium on Mining Surveying - Banff, Alberta
Contact: Dr. Bill Teskey
         (403) 220-5834

May 11 - June 17, 1993
GEO/SQL - GIS Software - This course teaches the student how to use Geo/SQL. This is the trade name for a microcomputer based Geographical Information System software package that uses AutoCAD to manipulate and view graphical data.
Contact: Paul Delorme, Survey and Mapping Technology, SAIT.

June 8 - 11, 1993
1993 Surveying and Mapping Conference - Toronto, Ontario
Contact: (406) 336-4812

June 20-24, 1993
International Right of Way Association 39th Annual International Education Seminar
"Right of Way and the Environment"
"Partners in Education"
Calgary Convention Centre
Contact: John P. Kerkhoven
         (403) 267-6756

July 25 - 29, 1993
URISA '93, sponsored by URISA International will be held at the Inforum in Atlanta. Contact: URISA Secretariat, Washington, D.C. - Tel: (202) 289-1685.

March 5 - 15, 1994
FIG XX Congress
Melbourne, Australia

September 18 - 23, 1994
Habitat 2000 will be the theme of the International Joint Congress of the Canadian Institute of Planners and the International Federation for Housing and Planning to be held in Edmonton. Contact: Bruce Duncan, Conference Chairman - Tel: (403) 421-1994.

About the Cover

Photograph submitted by
Dwayne-J. Westacott

The cover photo was taken during a topographic survey near Sherwood Park. For this survey, the horse proved to be superior to conventional all terrain vehicles such as the quad, and the survey was completed in less time than anticipated. Several obstacles had to be overcome such as fallen trees and a creek with steep banks. If we had used a quad, I think we’d still be trying to pull it out of the creek.
COMMENTARY
by G.K. Allred, A.L.S., C.L.S.

Over the next several issues it is my intention to write a number of articles commenting on new areas of practice in which land surveyors may have the skills and expertise to provide a service to society. The presumption is made that the service is either not available or may be provided by others who do not have the perspective that a land surveyor may bring to the practice.

My ideas may be provocative, radical, dangerous, or even downright impractical, however, if they stir one land surveyor to broaden his (or her) scope of practice and provide a higher level of service to the public, I will have fulfilled my mission.

In introducing this series, I place one caveat on my comments: I do not mean to suggest that a land surveyor can enter into a new field of practice without adequate preparation. Certainly we all have a professional obligation to continue learning in order to maintain our competence. To expand our practice requires an even greater dedication to build on our present level of skill and expertise, and to research the challenge of new opportunities.

To begin, I would like to reflect on the training that land surveyors obtain in achieving professional status. All surveyors, no matter what their academic background, are either trained or educated in the physical and mathematical sciences, legal principles, geography, communication, graphics, and measurement techniques. We may not all be experts in any of the above, but we should have a practical understanding of most of the arts and sciences that deal with land and measurement.

Based on the foregoing, I would suggest that a land surveyor has a broader training than most university graduates. The surveyor’s training prepares him to enter a career in the many fields of surveying whether his interests take him into cadastral, control, deformation measurement, data gathering, hydrography, photogrammetry, mapping, planning, or land information systems. He cannot progress and develop any degree of expertise in any of these separate specialty areas without devoting himself to further study and research. The information and technological advancements of our times require the diligent commitment to continual upgrading of knowledge and skills.

The surveyor who devotes himself to private consulting, to government at any level, to industry, or to the academic community can apply his training to develop a rewarding career in many potential areas of service. His unique combination of knowledge, skills, and interests can be applied to assist the advancement of society through service, design, and development of modern facilities or systems, or in the creation of new technologies and systems which will make the world a better place in which to live.

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Pipe & Cable Locator: new 480B offers narrow noise bandwidth, sharp meter response, 50/60 Hz power line locating capability; accessories available for inductive coupling, blind searches, power line detection.

Sheath Fault Locator: SFL detects and pinpoints damage or breaks in buried cable or wire, simple LED directional guidance; automatic gain; crystal-controlled 4.8 Hz receiver & transmitter; rugged A-frame receiver.

Ferromagnetic Locator: new 890B iron and steel locator scans deep for valve boxes, vault covers, curb stops; masks out metal debris like bottle caps & cans, etc.; improved visual and audible signals for easier use.

Line Tracer: feature automatic guidance, push-button depth measurement; 650 model uses high power AF signal for long distance conductor tracing; 810 model uses an 8.3 KHz output frequency to jump insulators and gaskets on water & gas lines.

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STANDING COMMITTEES

Education Committee
Council Liaison:
J.D. Wallace
Chairman:
P.M. Michaud
Members:
K.F. Berg, T.M. Erdman,
D.R. Jaques, M.E. Kinloch,
D.N. Marquardt,
A.P. Methuen (ASSMT),
D.B. Neufeld,
T. Stephens (ASSMT),
G.K. Stromsmoe, I.J. Stuart,
B.E. Winton, S.T. Yanish,
V.A. Ziegler

General Purpose:
As established in the Alberta Land Surveyors’ Association Bylaws, the Education Committee is a standing committee reporting to the Council through the Executive Committee. Reporting via its chairperson, the Education Committee assists the Council in its function of governance by:
• Recommending, implementing and evaluating operational educational policies;
• Developing long and short term plans to meet the educational requirements of articled students, members, member’s support staffs and technologists;
• Monitoring and evaluating the implementation of the Association’s educational program;
• Advising Council on educational options, based on committee research and evaluation.

Duties/Assignments:
The Education Committee is assigned the following tasks:
1. To review all current operational education policies and submit recommendations to Council for changes and additions.
2. To review the current education programs and needs of articled students, members, member’s support staff, and technologists. This review will include recent surveys within and outside the survey profession as well as any reviews currently undertaken by other committees. (For example, the Registration Committee is currently undertaking a review of the articled student process.)
3. To determine the educational programs available to meet the needs of the identified groups in point 2.
4. To develop recommendations to Council for a plan of educational programming that meets the needs of various groups within the Association.
5. To develop an annual system to evaluate programming on all levels.
6. To identify funding opportunities for the development and presentation of courses to allow access to courses by all groups.
7. To identify any funding or resource requirements of existing providers of survey-related programming (i.e. technical schools, the University of Calgary).
8. To prepare an annual operating plan including a budget.
9. To prepare an Education Committee report for the Annual General Meeting.
10. To prepare a yearly evaluation of the committee’s accomplishment of these terms of reference, recommending changes and amendments for the following year.

Appointments and Composition:
Council shall appoint, by motion, not less than six committee members recruited from the general membership. There will be one additional member from ASSMT and from another related group. A Council Liaison will be appointed on an annual basis.

Duration of Appointment:
The term of appointment for all committee members shall be two years.

REPORT OF ACTIVITIES
The Education Committee started the year on June 18, 1992 with its first meeting in Red Deer. This was followed by a Strategic Planning Session which initiated the development of the Business and Technical Training Program. The catalyst of this year’s program was a government grant which allowed for partial funding.

We reviewed the membership needs through personal interviews with several firms in Edmonton and Calgary and a detailed educational needs survey was sent to all members. As a result, four business related courses and four technical courses were organized.

Marketing Management: Jan. 1993
Human Resources Management: Feb. 1993
Management and Organization: Mar. 1993
Water Law: Jan. 1993
Job Costing & Profitability: Jan./Feb. 1993
Plan Examination: Feb./Mar. 1993
Municipal Applications: Feb. 1993

The business courses were developed and presented by professional consultants, while a combination of Government and ALSA members prepared and presented the technical courses.

The committee involved articled students and ASSMT members in the educational activities of the Association by offering the courses at half price.

A considerable amount of time and effort were spent on determining logistics, preparing requests for proposals, holding an information session, evaluating the proposals, advertising, communicating the results, and working with the presenters to develop meaningful courses for the membership.

As Chairperson of the Committee, I acknowledge the hard work of Grant Hammond, the committee members, the staff of the Association office, including Brenwyn Cooley, and the members who provided courses synopses. I thank you for an extremely beneficial year.
Legislation Committee
Council Liaison:
R.H. Beaumont
Chairman:
R.O. Hall
Members:

General Purpose:
As established in the Alberta Land Surveyors' Association Bylaws, the Legislation Committee is a standing committee reporting to Council through the Executive Committee. Reporting via its chairperson, the Legislation Committee assists Council in its advocacy function by:
- Recommending, implementing, and evaluating operation advocacy policies;
- Developing long and short term Association planning in the legislation area;
- Monitoring proposed internal and external proposed legislation changes or additions;
- Advising Council on expanded professional options, based on committee and subcommittee research and evaluations.

Duties/Assignments:
The Legislation Committee is assigned the following tasks during the period of these terms of reference:

1. As directed by Council, review all current operational internal and external legislation policies and submit recommendations to Council for changes and additions.
2. Monitor proposed applications and proposals to the provincial legislature as they relate to the survey profession. Examples are condominium legislation, expanded professional legislation, legal legislation.
3. Make recommendations to Council regarding proposed or existing provincial legislation affecting the practice of surveying.
4. Establish an Expanded Professional Subcommittee to be a resource to the Legislation Committee in identifying, developing and evaluating options with targeted professions.
5. To be a resource to other committees of the Association contemplating legislative changes, additions or deletions.
6. To prepare an annual operating plan including a budget.
7. To prepare a Legislation Committee report for the Annual General Meeting.
8. To prepare a yearly evaluation of the committee's accomplishment of these terms of reference, recommending changes and amendments for the following year.

Appointments and Composition:
Council shall appoint, by motion, not less than six committee members recruited from the general membership and articled students. Council will also appoint a Council Liaison.

Duration of Appointment:
The term of appointment for all committee members shall be two years.

REPORT OF ACTIVITIES
Six committee meetings as well as several Expanded Profession Sub-committee meetings have been held to date.

1. A number of pieces of existing, new or proposed legislation that may affect the profession were reviewed. Included in this review are:
   
i) Proposed changes to the Condominium Act (a member of the legislation committee is now a member of a committee for the Home Builders Association to review legislation).
   ii) Metis Legislation - this is an ongoing process as most of the legislation is just being prepared and/or finalized.
   iv) ASSMT Bylaws.
   vi) Professional Practice Regulation - a recommendation to Council.
   vii) ASET Application to Professions and Occupations.

2. Like most committees of the Association, the Legislation Committee met with Grant Hammond for a strategic Planning drill session. Terms of reference, action plans and budgets were prepared, reviewed and adopted.

3. With respect to the Expanded Profession, meetings were held by both the committee and the sub-committee. A detailed report was presented to the committee by the sub-committee with respect to the Expanded Profession's concerns and questions. Communication and correspondence with ASSMT has been undertaken to the point whereby a joint meeting has been set up in order to prepare an action plan and agenda for the possible incorporation of ASSMT into ALSA.

Terms of reference for the upcoming year will continue to be those for this year with emphasis on working with ASSMT for their incorporation into ALSA.

Public Relations Committee
Council Liaison:
D.A. Jamieson
Chairman:
I. Douglas
Members:

General Purpose:
As established in the Alberta Land Surveyors' Association Bylaws, the Public Relations Committee is a standing committee reporting to Council through the Executive Committee. Reporting via its chairperson, the Pub-
lic Relations Committee assists Council in its function of communications by:
1. Acting as a resource group to the Alberta Land Surveyors’ Association administration in the planning, recommending, developing, and implementing internal and external public relations activities.
2. Monitors and evaluates the Association’s communications programs.
3. Advises Council as to public relations program strategies and alternatives based on research and evaluations.

Duties/Assignments:
The Public Relations Committee is assigned the following tasks during the period of these terms of reference:
1. To review all current operational communications policies and submit recommendations to Council for changes and additions.
2. The Public Relations Committee will:
   - research and evaluate the communications needs of the members, and the Association’s target partners as identified in the framework Policies.
   - review current public relations programs as they relate to internal and external communications and make recommendations to Council.
   - in concert with the ALSA administration develop and implement approved communications plans as they relate to internal and external communications.
   - monitor and evaluate the above programs and prepare recommendations to Council for improvements, if necessary.
3. To prepare an annual operating plan including a budget.
4. To prepare a Public Relations Committee report for Council.
5. To prepare a yearly evaluation of the committee's accomplishment of these terms of reference, recommending changes and amendments for the following year.

Appointments and Composition:
Council shall appoint, by motion, not less than six committee members recruited from the general membership. Additional members may be added from target partners. A Council Liaison will be appointed on an annual basis.

Duration of Appointment:
The term of appointment for all committee members shall be two years.

REPORT OF ACTIVITIES
The Committee will have met eight times this year, five times in Calgary and three times in Red Deer. There was much discussion throughout the year at the meetings with regard to the committee's role in the Strategic Plan. As a result, the previous terms of reference were reworked throughout the year. Representation by the Public Relations Committee took place at the following functions:
1. Alberta Development Officers Association
   September 30, 1992
   D.R. Jaques, A.L.S.
2. 1.R.W.A. Convention (upcoming)
   June 22, 1993
   G.K. Allred, A.L.S.
3. Career Day
   J. Percy Page High School
   Edmonton - November 5, 1992
   K. Berg, A.L.S.
4. Career Day
   SAIT, Calgary
   November 18, 1992
5. Career Day
   Okotoks High School
   February 17, 1992
   A. Nielsen, A.L.S.

Meetings were also held with the Calgary Real Estate Board to discuss Real Property Reports and ways to promote awareness of the role of the Alberta Land Surveyor.
A recommendation for "Outstanding Service Award" was received from the membership and the committee agreed with the submission therefor recommending it to Council.
The Annual Golf Tournament, organized by Ron Hall, A.L.S. was held at Sylvan Lake on August 28, 1992.

Standards Committee
Council Liaison:
L.H. Pratt
Chairman:
L.M. Pals
Members:
J.E. Abbey, R.A. Bassil,
P.N. Ellegood, L.C. Finner,
J.H. Holmlund, T.W. Hudema,
J.W. MacLeod, K.L. Rowe,
W.A. Wesolowski, D.A. Wiberg

General Purpose:
As established in the Alberta Land Surveyors' Association Bylaws, the Standards Committee is a standing committee reporting to Council through the Executive Committee. Reporting via its chairperson, the Standards Committee assists Council in its function of professional program governance by:
1. Reviewing all operational standards policies and recommending changes as necessary.
2. Developing and monitoring operational standards policies.
3. Developing long and short term strategies toward issues which impact on current standards.
4. Advising Council on potential options based on committee research and evaluations.

Duties/Assignments:
The standards Committee is assigned the following tasks during the period of these terms of reference:
1. To set up and participate in a process of continual review of all legislation, manuals, and other processes which impact on standards of the Association.
2. To become proactive in searching out public and private sector initiatives which will affect the future standards of the Association.
3. To develop standards as required and review same with the offices of the Director of Surveys and Land Titles.
4. To prepare annual operating plan including a budget.
5. To prepare a yearly evaluation of the committee's accomplishments of these terms of reference, recommending changes and amendments for the following year.
Appointments and Composition:
Council shall appoint, by motion, not less than ten committee members, recruited from the general membership, which includes the Director of Surveys. Additional members should be encouraged, such as articed students, ASSMT and other professions.

Duration of Appointment:
The terms of appointment of all committee members will be two years.

REPORT OF ACTIVITIES

During the year, the Standards Committee met ten times. Initially the committee was structured into two subcommittees, one in Edmonton and one in Calgary. Over a period of time however, it determined it was difficult to communicate and coordinate efforts, therefore, the committee chose to meet in Red Deer and work as one unit.

Representatives from the Standards Committee met with other members of what has become known as the Liaison Meeting. Participants in this particular meeting are representatives from ALSA, LTO and LISD. This meeting occurred on November 6, 1992 and some of the agenda items included: legends on plans, Section 43 plans, redundant measurements on descriptive plans, survey plan rejection, and the proposed changes to the Manual of Good Practice. As a result of this meeting, the Alberta Land Surveyors will be working with LTO in a study as to the causes for the high rate of plan rejection. Further, the ALSA was requested to continue the investigation of the implications of posting non-parallel limits for restrictive covenant purposes as well as take back to the membership, the concerns with respect to descriptive plans, being prepared prior to receiving written approval and preparation of same using redundant measurements. The next liaison meeting will be held May 7, 1993.

The development of standards for Section 43 plans was worked on by the committee during the year however, recommendations resulting from this work will not be ready for this term and will be referred to the 1993/94 Standards Committee for completion.

With respect to amendments to the Manual of Good Practice, please note the following recommendations that have been approved by Council for presentation to the Annual General Meeting for consideration of the members.

Recommendation #1:
Amend Section 9(1)(e) to be 9(1)(e)(i) - Intervening Lost Monuments - to read:

Except as noted in 1(f) below, when surveying rights-of-way that intersect surveyed section or quarter section lines, the intersections shall be made by using the nearest section or quarter corners on each side of the point of intersection. If the monuments at these corners are lost, these lost corners "as well as all section and quarter section corners between the survey evidence utilized to re-establish the lost corners, shall be re-established and monumented," giving due consideration to all available evidence.

Recommendation #2:
Ties Both Ways - add a new Section 9(1)(c)(ii)

When performing a survey for a new right-of-way or road, intersections made between existing monumentation should show ties both ways [see diagram 9(1)(c)(ii)].

Recommendation #3:
Chapter II, Section 3 - ALSA Manual of Good Practice
Reworded as follows:
3. The type of monumentation found or placed for wellsite and related facilities shall be shown on the plan of survey. The recommended monumentation is an iron spike 30 centimetres in length, unless circumstances warrant alternate monumentation be used.

Rationale: This amendment should do away with such generic statements as "survey monuments placed" and "found survey evidence", etc., where the survey monument could be a latch, wooden hub, or flagged stake, and the survey evidence could be an iron post, pits, fence corner, spike, lathe, etc.

No plan, should leave no confusion as to what was actually found or placed by the survey.

The following matters will be recommended for continued work by the 1993/94 Standards Committee:

- Reference monumentation for residential subdivisions.
- Liaison with LISD on a resolutions to the problem of dormant plans.
- Develop a standard for wellsite surveying by GPS.
- Address the situation of the large number of unfilled wellsite plans in unsurveyed territories.

The following two action items were presented to the Standards Committee for resolution however, the Standards Committee will be recommending to Council that they be dropped.

- Investigate and prepare a submission on the involvement of planning authorities in survey-related activities such as preparation of subdivision applications and development of land information systems and the effect on the survey profession.
- Examine possible methods of funding a study on the deterioration of the survey fabric for Alberta's cadastral survey system.

The reason for the request to have the foregoing dropped from the Standards Committee action items was that members of the committee believed that these matters have been discussed, on agendas, and reviewed for a number of years with nothing substantial resulting and therefore, suggest that the efforts of the Standards Committee can be better used in other areas.

It has been a pleasure to serve as Chairman of the Standards Committee for the past year. It has been a rewarding learning experience for me and trust that the membership will review the recommendations being made by the Standards Committee and be prepared to discuss and consider same at the Annual General Meeting in April.

Success is getting up one more time.
Finance Committee
Council Liaison/Chairman:
W. R. Dabbs
Members:
B. E. Barnett, W. W. Fawcett
D. R. George, S. J. Longson
D. R. Tomkinson

General Purpose:
As established in the Alberta Land Surveyors' Association Bylaws, the Finance Committee is a standing committee reporting to Council through the Executive Committee. Reporting via its chairperson, the Finance Committee assists Council in its function of financial governance by:
1. Recommending, implementing and evaluating operational financial policies;
2. Establishing the budgeting process and the financial reporting system;
3. Planning and reviewing budgets;
4. Monitoring and approving expenditures;
5. Managing the assets of the Association;
6. Overseeing fund raising activities.

Duties/Assignments:
The Finance Committee is assigned the following tasks during the period of these terms of reference:
1. To review all current operational financial policies and submit recommendations to Council for changes and additions.
2. To review the Association's budgeting process, bookkeeping and expenditure control procedures, and prepare recommendations for changes to improve these systems.
3. To prepare the annual budget.
4. To coordinate the annual audit and prepare year-end reports to statutory authorities.
5. To prepare a financial report on the Association for the Annual General Meeting.
6. To prepare a Finance Committee report for the Annual General Meeting.
7. To prepare a yearly evaluation of the committee's accomplishments of these terms of reference, recommend changes and amendments for the following year.

Appointments and Composition:
Council shall appoint, by motion, up to six committee members recruited from the general membership. In addition, the Secretary Treasurer of Council shall be the committee chairperson. The Executive Director or his/her designate shall be invited to all meetings of the Finance Committee and shall provide advice and counsel.

Duration of Appointment:
The term of appointment for all committee members shall be three years, with two coming off each year.

REPORT OF ACTIVITIES
1. The committee prepared and presented to Council, one budget for the period December 1, 1992 to April 30, 1993. By the Annual General Meeting, the committee will have prepared the annual budget for the coming year and presented same to Council.

2. The budgeting process and budget controls have been reviewed and recommendations made to better control same.
3. Extensive research was done in trying to locate new office space. The conclusion was reached to renovate the present space in conjunction with the Landlord and renew our present lease.
4. A "Wage and Salary Survey" and a survey on "Survey Services and Average Unit prices" was carried out, compiled and reported to the membership.
5. The Policy Manual of the Association is being reviewed with the intention of developing and compiling an overall Policy Manual which will condense, simplify, and eliminate conflicting policies.
6. Several Council and staff policies were reviewed and recommendations made to Council for approval.
7. In all, eight committee meetings were held this past year with at least one more before the Annual General Meeting.

A giant step has been made in better allocation and control of the Association's assets. This next year should see a more concise, detailed and accurate reporting system. A recommendation will be going to Council for up to date personal computers for accounting and control systems. The Association's affairs have been, and are being, well controlled financially. As the budget continues to increase, this extra detail and reporting becomes increasingly more important.

This committee recommends that the "General Purpose" and "Duties/Assignments" as developed by our Strategic Plan remain for the coming year.

Convention and Social Committee
Council Liaison:
R. F. Baker
Chairman:
B. E. Winton
Members:
G. Anderson, L. Archand
W. W. Fawcett, R. O. Hall
J. G. Halliday, J. Impay
F. Longson, P. M. Michaud
B. Necyk, J. D. Stephens
F. M. Strochinski, P. D. Westersund

General Purpose:
As established in the Alberta Land Surveyors' Association Bylaws, the Convention and Social Committee is a standing committee reporting to Council through the Executive Committee. Reporting via its chairperson, the Convention and Social Committee assists the Council in its function of program governance by:
1. Developing long and short term Association planning in the convention and Annual General Meeting areas;
2. Monitoring and evaluating the Association's convention and Annual General Meeting programs;
3. Advising Council on programming options, based on committee research and evaluations.

Duties/Assignments:
The Convention and Social Committee is assigned the following tasks to:
during the period of these terms of reference:
1. To review all current operational convention and social programming policies and submit recommendations to Council for changes and additions, if required.
2. To review the current convention, Annual General Meeting and social programs to establish strategies in the following areas:
   - composition of attendees (target users of programs);
   - convention and Annual General Meeting programming based on attendees;
   - financial;
   - communications/promotion.
3. To plan and cause to be carried out, a convention and Annual General Meeting at the direction of Council on a yearly basis.
4. To approach other provincial survey associations and professional groups to become aware of programming and to access their evaluation process.
5. To establish the effectiveness of the convention, Annual General Meeting, and other social programs to

users. This review could include user surveys.
6. To prepare an annual operating plan including a budget.
7. To prepare an annual report to Council after each convention and Annual General Meeting.
8. To prepare a yearly evaluation of the committee’s accomplishments of these terms of reference, recommending changes and amendments for the following year.

**Appointments and Composition:**
Council may appoint, by motion, not less than eight committee members recruited from the general membership. Additional members may be added from target users such as spouses, an exhibitor’s representative and articulating students. The chair position will be on a three year rotational basis of vice chair, chair and past chair.

**Duration of Appointment:**
The terms of appointment of all committee members will be three years.

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**Executive Committee**

**Council Liaison/Chairman:**
R.F. Baker, President

**Members:**
W.R. Dabbs, Secretary Treasurer
B.M. Cooley, Executive Director
G.L. Haggerty, Past President
H.E. Impey, Vice President

**General Purpose:**
The Executive Committee is a standing committee reporting to Council. Reporting through the chairperson, the Executive Committee assists Council in the functions of organization governance and *advocacy governance by:
- Supervising the performance of the Executive Director.
*Advocacy is the use of human and financial resources to create public awareness of a problem it perceives to exist or support the solution it intends to bring about.*
- to review and recommend to Council, draft operational policies developed by the standing and statutory committees.
- To develop governing and operational policies and plan the Association’s advocacy program and recommend these to Council.
- To undertake advocacy assignments on behalf of the Association.
- To coordinate the work of the standing and statutory committees and evaluate their implementation of duties and assignments.
- To prepare recommendations, plans, and policy requirements for a system of annual operational planning for the entire Association.
- To supervise, through the Council chairperson, the Executive Director’s implementation of annual objectives.
- To cause to be developed and maintained, adequate communication and
reporting systems between committees, administration, and Council.
8. To prepare an annual operating plan including a budget for recommendations to Council.
9. To prepare a yearly evaluation of the committees' accomplishments based on their terms of reference.

Appointments and Composition:
The Executive Committee membership will consist of the Association President, Vice President, Secretary Treasurer, and Past President. The Executive Director shall attend all meetings of the Executive Committee and will provide advice and counsel.

Duration of Appointment:
The term of appointment for all Executive Committee members shall be one year after the Annual General Meeting.

REPORT OF ACTIVITIES
At the discretion of the President or as directed by Council, the Executive Committee functions in a planning and organizing capacity and/or deals with emergency issues. It is responsible for high level government liaison and for liaison with other professional organizations.

The committee met nine times over the past year on a once a month schedule except for the summer months. In addition, the committee attended seven regional meetings held with the ALSA membership.

Following are some of the issues addressed by the Executive Committee:
- Met with the Assistant Deputy Minister in charge of the Land Titles Administration to review the concerns of LTO on errors in documents for registration.
- Met with the Land Information Services Division on the possibility of utilizing the systems in place to house a Real Property Report Index System.
- Met with the Calgary Real Estate Board on our concerns regarding their policy for selecting survey firms for conducting Real Property Reports in the City of Calgary.
- Met with Alberta First Call on matters of mutual concern.
- Met with officials of AGT on the issue of monument destruction which precipitated the Association presenting a number of seminars to AGT field personnel in various centers throughout the province.
- Reviewed the proposed terms of reference for the statutory, standing, and ad hoc committees on a regular basis prior to presentation to Council.
- Addressed job descriptions for the Executive Director, Inspector of Surveys and administration staff.
- Provided assistance to the Executive Director on matters concerning office policy, selection of chartered accountants for the ALSA, office space, and renovations.
- Held meetings with officials from the Industrial Adjustment Systems of the Department of Manpower and Immigration to deal with the grant funding for implementing the Strategic Planning process.

In conclusion, the committee has had a very busy year with the implementation of the Strategic Planning process in early August. As part of that process, the committee developed their terms of reference and action steps and dealt with the question of where they position themselves in the Association.

Recommended Terms of Reference:
Continue with the terms of reference as accepted by the committee and adopted by Council at their meeting on January 27, 1993.

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PHONE: (403) 948-8420
FAX: (403) 948-3373

EXHIBITOR INFORMATION
CONTACT: JEFF BADYK
P.O. BOX 6698, STN. "D"
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STATUTORY COMMITTEES

Discipline Committee
Council Liaison/Chairman:
G.L. Haggerty
Members:
G.K. Allred, L.W. Breton,
H.C. Engler, R.J. Fulton,
J.H. Holmlund, M.E. Kinloch,
S.M. Loepky, D.J. Lunny,
T.D. MacNeill, D.R. McWilliam,
I.C. Maltais, T.G. Martin
B.A. Murray, G.E. Olsson,
J.K. Smith, D.L. Tronnes

General Purpose:
As established in the Alberta Land Surveyors Association Act, the Discipline Committee is a statutory committee reporting to Council through the Executive Committee. Reporting via its chairperson, the Discipline Committee assists Council in its function of professional governance by:
1. Fulfilling the responsibility of the Discipline Committee as set out in the Land Surveyors Act.
2. Recommending, implementing and evaluating policies pertaining to fulfilling the requisite of the Act.
3. Developing educational initiatives for the Committee members to ensure an adequate understanding and grasp of the issues.

Duties/Assignments:
The Discipline Committee is assigned the following tasks during the period of terms of reference:
1. Under the Alberta Land Surveyors Act:
The investigation and resolution of any complaint of unprofessional conduct and unskilled practice resulting from any conduct of a practitioner that:
   a. is detrimental to the best interest of the public;
   b. contravenes a code of ethics of the profession as established under the regulations.
   c. harms or tends to harm the standing of the profession of surveying generally;
   d. displays a lack of knowledge of or lack of skill or judgement in the practice of surveying, or
   e. displays a lack of knowledge of or lack of skill or judgement in the carrying out of any duty or obligation undertaken in the practice of surveying.
2. To review all current discipline policies and submit recommendations to Council for changes and additions, if required.
3. To develop and maintain an adequate educational program to orient and instruct Committee members in carrying out the Committee functions.
4. To prepare and publish a plan including a budget.
5. To prepare reports to Council on a regular basis and to prepare a report for the Annual General Meeting.
6. To prepare a yearly evaluation of the Committee’s accomplishment of its terms of reference, recommending changes and amendments for the following year.

Appointments and Composition:
Under the Land Surveyors Act, Council shall appoint, by motion, a chairperson and/or one or more vice chairmen from among the members of the Discipline Committee. All Committee members will be Alberta land surveyors. Current practice appoints the outgoing Council President as chair of the Committee. The Committee shall have at least six members.

Duration of Appointment:
The term of appointment of all committee members shall be five years.

REPORT OF ACTIVITIES
The Discipline Committee has dealt with eight discipline matters over the past year. Two of these were reported in the November 1992 issue of ALS News. Another case was heard by the Discipline Committee and they found that the practitioner’s conduct constituted neither unskilled practice of surveying nor unprofessional conduct. One practitioner has appealed the findings of his discipline case to Council and the results are pending.
The chairman investigated one complaint and found it to be frivolous and vexatious. Mediation work was required, but the complaint was dismissed.
The Discipline Committee has two cases which should be heard prior to the Annual General Meeting and a third case is presently being mediated. It will be referred to the Discipline Committee if mediation is not successful.
An Administrative Law Seminar was held in the spring of 1992 with thirty members attending. The seminar was open to all members. During the summer, a meeting was held with the Registrar and legal counsel to pursue discussion on the scope and options available in the discipline process.
As requested, a reference manual regarding the ALSA Discipline Process has been prepared.
The Discipline Committee’s mandate is to discipline wayward members but we must be fair and allow the system of mediation, investigation, hearings, and appeals to the Council and the Court to take its course. Members laying complaints and members being disciplined both have responsibilities to uphold if our professionalism is to be preserved.

84th
ALSA
Annual General Meeting
April 15-17, 1993
Westin Hotel
Edmonton
Registration Committee

Council Liaison:
A.W. Nelson
Chairman:
B.W. Gudim
Members:
S.C. Green, R.W. Leeman, J.J. Matthyessen, B.E. Winton

General Purpose:
As established in the Alberta Land Surveyors Act, the Registration Committee is a statutory committee reporting to Council through the Executive Committee. Reporting via its chairperson, the Registration Committee assists Council in its function of professional registration by:
- The approval of articles.
- Interview with principal and pupil.
- Assessment and approval of articles based on the interview.
- An annual assessment of training and experience.
- The approval of transfer of articles.
- The termination of articles.
- The determination of the eligibility for registration.

Duties/Assignments:
The Registration Committee is assigned the following tasks during the period of the terms of reference:
1. All statutory duties as outlined in the "Land Surveyors Act".
2. To conduct an annual review of the entire articling process to ensure appropriateness of contents and current practices.
3. To conduct an annual review of the Syllabus and, upon approval of Council, make recommendations to the Professional examination Board of the Universities Co-ordinating Council for any changes.
4. To prepare an annual operating plan including a budget.
5. To prepare a Registration Committee report for the Annual General Meeting.
6. To prepare a yearly evaluation of the committee's accomplishments of its terms of reference, recommending changes and amendments for the following year.

Appointments and Composition:
Under the Land Surveyors Act, Council shall appoint, by motion, at least four committee members recruited from the general membership. The current practice is to have five members. Members must be Alberta land surveyors. In addition, a Council Liaison will be appointed by Council. The quorum for a meeting is three members of the committee.

Duration of Appointment:
The term of appointment for all committee members shall be five years, with one member coming off each year.

REPORT OF ACTIVITIES

The Registration Committee held five meetings in 1992 for the purpose of conducting nine initial pupil interviews, twenty-two annual pupil interviews, and seven pupil transfer interviews. Seven applications for registration with the Alberta Land Surveyors' Association were approved in 1992.

At December 31, 1992 there were thirty-two articling pupils, of which nine were preparing for the qualifying examination. Approximately twelve pupils are expected to write professional examinations in 1993.

The Registration Committee commenced a review of the Alberta Land Surveyors' Association articling process and syllabus to ensure appropriateness of contents and current practices. The Committee will be making its recommendations to Council in the spring of 1993.

Recommendations to Council:
The Committee recommends that the current terms of reference be continued through 1993.

EXECUTIVE COMMITTEE OF THE PROFESSIONAL EXAMINATION BOARD

General Purpose:
The Executive Committee of the Professional Examination Board of the Universities Coordinating Council by Section 64(2) and (3) of the Universities Act.

Duties/Assignments:
To assist the Registration Statutory Committee, the Executive Committee will undertake the following duties:
1. To carry out all functions delegated to it through the Universities Coordinating Council by Section 64(2) and (3) of the Universities Act.
2. To develop an annual operating plan and a budget.
3. To prepare an annual report to the Registration Committee.
4. To prepare a yearly evaluation of the Executive Committee's accomplishments of the terms of reference, recommending changes and amendments for the following year.

Appointments and Composition:
All members of the Registration Committee form the Executive Committee of the Professional Examination Board. Only one member of Council can also be a member of this Board at the same time. Academic appointments are made by the Universities Coordinating Council through its committee on the professions.

Duration of Appointment:
The term of appointment follows that of the Registration Committee.

REPORT OF ACTIVITIES

The Professional Examination Board held four meetings in 1992, at which four professional examinations were set, fifty-two written examinations marked, and nine qualifying examinations held. Five of thirteen pupils passed all four of the written examinations, while six pupils will be required to rewrite one of the four examinations in 1993.
Nominating Committee

Council Liaison/Chairman:
G.L. Haggerty

Members:
S.M. Loeppky, I.C. Maltais

Terms of Reference:
1. Carry out the nomination process in accordance with the Association By-
laws.
2. Prepare a notice for insertion in the September ALS News regarding nomi-
nations.
3. Determine time commitments required for Council and committee mem-
bers.

Nominations:
The following slate of nominations has been received by the Registrar of the
Alberta Land Surveyors' Association pursuant to section 45 of the Bylaws of
the Alberta Land Surveyors' Association.

For President:
H.E. (Hugh) Impey - Grande Prairie

For Vice President:
L.H. (Lyall) Pratt - Edmonton

For Council:
L.A. (Lloyd) Cridland - Calgary
L.M. (Larry) Pals - Edmonton
D.J. (Don) Wilson - Barrhead
J.I. (Jim) Van Dam - Medicine Hat

Additional nominations may also be made pursuant to Section 48 of the
ALSA Bylaws at the Annual General Meeting of the ALSA which will be held on April 15th, 16th, and 17th, 1993 at the Westin Hotel in Edmonton.

For President:
- Born at Breton, Alberta
- Attended Breton High School
- Worked in the seismic industry for three years prior to returning to school
- Graduated from SAIT in Survey Technology in 1956
- Articled to D. Rae Sutherland and worked with Canadian Engineering Surveys from 1956 to 1965
- In private practice in Grande Prairie with H I W Surveys from 1965 to present
- Past member of Council
- Former member of the Practice Review Board
- Former Chairman of the Practice Review Board
- Past member of various ALSA committees
- Served as Vice President for the ALSA 1992/93
- Past member of Grande Prairie City Council for twelve years
- Past Chairman of the Board of Governors of the Grande Prairie Regional College
- Past member of the Board of Governors for the Grande Prairie Regional Hospital
- Past member of the Peace River Regional Planning Commission
- Past member of the Minister's Advisory Committee on Municipal Financing

For Vice President:
- Born in Vermilion, Alberta in 1949
- Graduated from Grande Prairie High School in 1967
- Completed Survey Technology at Northern Institute of Technology in 1969
- Received A.L.S. commission in 1982
- Member of the Canadian Institute of Surveying and Mapping
- Served on various committees: Public Relations (1982-84), Legislative (1985-86), Systems & Procedures (1987-91)
- Served as Northern Regional Chairman for the year 1990/91
- Served as a member on the ALSA Council (1991-93)
- Served as Council Liaison for the ALSA Standards Committee
- Past secretary - Kinsmen Club of Camrose (1988-89)
- Presently employed by Hamilton & Olsen Surveys Ltd., Edmonton
- Married to Lucy
For Council

L.A. (Lloyd) Criland, A.L.S.
- Born at Pincher Creek, Alberta in 1952
- Graduated from Matthew Halton High School in 1970
- Received diploma in Surveying Technology from SAIT in 1974
- Received A.L.S. commission in 1979
- Employed by Midwest Surveys (1974-84)
- Founded Cridland Surveys Ltd. in 1984
- Active coach in community sports
- Member of CIG
- Two children

L.M. (Larry) Pals, A.L.S.
- Born in Castor, Alberta in 1951
- Graduated from Theresea High in 1969
- Graduated from SAIT, Survey Technology in 1971
- Began Survey career with Alberta Transportation (1971-74)
- Employed by Walker, Newby & Associates (1974-83)
- Articled to L.R. Newby, A.L.S.
- Received A.L.S. commission in July 1976
- President of Pals Surveys Ltd. (1983-present)
- Served on ALSA Council (1984-86)
- Served on ALSA Standards Committee (1990-91)
- Served as Northern Regional Chairman (1991-92)
- Served as Convention Committee Chairman (1979 & 1983)
- Member of CISM, UPI, EHBA
- Married to Judy; three children

J.J. (James) Van Dam, A.L.S., S.L.S.
- Born in Holland (1944)
- Completed Medicine Hat High School (1962)
- Graduated from the Southern Alberta Institute of Technology with a diploma in Surveying Technology (1965)
- Articled to G. Munro, A.L.S., S.L.S. (1965-71)
- Received S.L.S. commission (1971)
- Received A.L.S. commission (1975)
- Served on the ALSA Strategic Planning Steering Committee for 1992
- Employed on legal surveys in Southern Alberta and South East Saskatchewan since 1965
- Presently a partner in George Munro & Associates Ltd.
- Married to Helen; three children; two grandchildren

D.J. (Don) Wilson, A.L.S
- Born in Barrhead, Alberta, 1948
- Completed High School in Barrhead
- Received Surveying Diploma from NAIT in 1975
- Articled to W.D. Usher, 1975-77
- Received A.L.S. commission in 1977
- Current Chairman of St. Anne’s Parish Council
- Married Marily Fox in 1971
- Six children: Shane, Courtney, Nate, Ashlee, Logan, and Gabrielle.
Practice
Review Board

Chairman:
N.R. Mattson

Members:
J.P. Ironstone, S.L. Longson,
D.N. Macdonald (public member),
W.A. Martin, G.A. Schirmacher,
W.A. Wesolowsky

General Purpose:
As established in the Land Surveyors Act, the Practice Review Board is a statutory board reporting to Council. Reporting via its chairperson, the Practice Review Board assists Council in its functions of professional governance by:
1. Fulfilling the responsibility of the Practice Review Board as set out in the Land Surveyors Act.
2. Recommending, implementing, and evaluating policies pertaining to fulfilling the requisites of the Act.
3. Providing recommendations to Council based on committee research and evaluation.

Duties/Assignments:
The Practice Review Board is assigned the following tasks during the period of these terms of reference:
1. Under the Land Surveyors Act:
   (a) Assessment of existing and development of new education standards and experience requirements.
   (b) Evaluate desirable standards of competence.
   (c) Review the practice of surveying in general.
   (d) Inquire into other matters that are identified by Council.
   (e) Conduct a review of a practitioner’s practice in accordance with the Act and Regulations.
2. To develop a practice review system encompassing the periodic review of surveys, plans, and related documents for recommendation to Council and upon approval thereof, implement and monitor the practice review system.
3. To develop a practice review system encompassing the systematic and periodic review of practitioners for recommendation to Council and upon approval thereof, implement and maintain the practice review system.
4. To review all current practice review policies and submit recommendations to Council for changes and additions, if required.
5. To prepare an annual operating plan including a budget.
6. To prepare reports to Council on a regular basis and to prepare a report for the Annual General Meeting.
7. To prepare a yearly evaluation of the Board’s accomplishments and recommending changes and amendments to its terms of reference for the following year.
8. To make recommendations to Council for appointment of members.
9. To liaise with the following ALSA committees: Executive, Education, Discipline, and Standards, and as a minimum meet with each chairman on an annual basis.

Appointments and Composition:
Under the Land Surveyors Act, Council shall appoint not less than four Board members recruited from the general membership. The Minister charged with the administration of this Act shall appoint one member of the public.

By current practice however, at least an additional two Alberta land surveyors should be members.

As the Board requires expertise in all areas of member practice, appointments should be made which ensure a balance of expertise in areas such as:
- Urban Land Development
- Resource Industries
- Government
- General Practice
- RPR/Construction
- Control Surveying/GPS

Duration of Appointment:
The terms of appointment of all committee members shall be two years, with a maximum sequential appointment of two additional one year terms.

The Practice Review Board shall appoint a Vice Chairperson each year.

TERMS OF REFERENCE

The Practice Review Board had a very busy year, notwithstanding that the former Professional Audit Branch only operated for a limited time before being placed in limbo. With the departure of the former Inspector of Surveys early in the new Association year, very few plan examinations were completed. Nine PRB meetings were held during the year and this was interspersed with numerous ad hoc meetings with other ALSA committees and Council.

During the first meeting, the PRB formulated and submitted a recommendation to Council to consider the review of the practice of practitioners relating to the preparation of Real Property Reports. Council in turn, approved the program and allocated certain reserve funds to undertake and complete the program. The initiative was subsequently postponed pending the outcome of an extraordinary meeting among Council and the PRB in August 1992. Following a brief moratorium on the issue, the PRB was subsequently authorized to again proceed and guidelines for the review were prepared.

Applications for the temporary position of Practice Review Inspector were received and considered in early September. Mr. Don George, A.L.S. and Mr. Dave McWilliam, A.L.S. were subsequently retained to perform the reviews; however, given the time required to prepare and ratify the extent of the program, it was not possible to commence operations until November.

At the time of preparing this report, the reviews have not been fully completed. It is anticipated that a final report will be submitted to Council by approximately early May 1993.

During a Strategic Planning meeting held with the PRB, the concept of a comprehensive practice review evolved and a recommendation was made to Council on the matter. Although Council approval was not initially received, they encouraged the PRB to continue developing the idea. Following considerable discussion and debate on the matter, a comprehensive report was prepared and submitted to Council on February 2, 1993. At the time of this writing, a joint meeting of Council and the PRB is scheduled in...
the near future to finalize the systematic practice review program. Details should be available for distribution at the annual meeting.

In addition to the foregoing activities, the PRB dealt with numerous items which were referred by Council or initiated by the PRB. Included were four items dealing with Real Property Reports that did not result from the practice review initiative, but rather from external sources. At this time, the matters have not been concluded and cannot be reported on. Particulars of each will be reported on in due course.

One practice review, which originated from the Discipline Committee, is in its final stages and should be completed in the near future.

The PRB has initiated a program whereby each new ALSA member will be invited to attend a regular meeting of the PRB for an informal "fire-side" chat. The purpose of the meeting is to inform the new member of the function of the PRB, emphasize the educational mandate of the Board, and discuss items of mutual interest. Apart from the foregoing, two "senior active" members were requested to meet with the PRB during the year to discuss specific issues. In both cases, the matters were resolved amicably and the members agreed to cooperate and abide by directives put forth by the PRB.

The PRB member composition was discussed in depth and as stated in the terms of reference for the PRB, a yearly induction of at least one new member is desirable with each appointment lasting from two to three years on average. Further, it is deemed important to have all specialty areas of practice represented on the Board at all times. This will ensure that sufficient senior expertise is available to deal with all matters put before the Board.

The PRB has no new recommendations to Council other than those which were submitted periodically during the year.

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**RTS Systems**

Tel/FAX (403) 461-4078 Canada

**Coordinate Geometry Modules for Civil Engineers & Land Surveyors**

We design software to be efficient and easy to use in view of accurate computation, time-saving and effective cost. Our software can be operated as a stand-alone module, or incorporated into any engineering software package. Minimum training is expected as the operating manuals are fully illustrated and used as teaching tools. Minimum hardware: IBM-XT or compatibles, 640K RAM, mathcoprocessor and MS-DOS 3.3 or later.

**RTS (Rail-Transit Survey) - $128**

RTS is a module to facilitate alignment storage, geometric design and stakeout of high-speed railway tracks. It replaces paper drawings and stores both horizontal and vertical alignments (the precise 3D model) of railway routes in a micro-computer system.

From basic design data (PHIs, radii, spiral lengths, super-elevations, PVI, vertical curve lengths, etc.), it determines the coordinates of points at changes of geometry. It is capable of addressing any combination of straight, circular curve, spiral, link spiral, reverse curve, compound horizontal curve, vertical parabola, asymmetric vertical curve, etc. in a continuous model.

The user can change super-elevation or gradient of super-elevation in any section of a route. When the 3D model is available in the data bank, RTS provides setting out data (centre-line coordinates, elevations of running rails, radial-stakeout data with respect to ground control points, etc.) at any chainage or interval as requested by the user. The railway engineer may use the data to check the clearance of the railway tracks from a street furniture or a particular object.

**TAS (Tunnel Alignment Survey) - $128**

Similar to RTS in system design, TAS is a module for alignment storage, geometric computations and stakeout of utility tunnels for highways, mines, pipeline, etc. At any chainage, TAS outputs Tunnel centre 3D coordinate and its tangential azimuth to expedite installation of laser spads, or direct any computerized shield drive being used in boring tunnels.

**RCoGo - $128**

RCoGo is a coordinate geometry module designed for land surveyors, civil engineers, shipbuilders, etc. in boundary surveys and engineering constructions. 5000 point capacity for Version 3.0. We can modify the storage array to address up to 2,147,000 points to suit your hardware. Student Version with 100 point capacity is available at $59. Largest point number allowed is 2147000. Azimuth can be entered in DEG.MNSEC, by point numbers, or by point numbers plus or minus a deflection angle. Distance can also be entered by referring point numbers. /O to ASCII files CONTROL.PTS and REPORT for integration with other modules.

**RCoGo features:**

- Area Computations (Lot Closure)
- Balance Traverse by Angle Adjustment, Compass Rule, Transit Rule & Crandall's Least Square Method
- Create New Point by Coordinate Entry, or by Azimuth and Distance from Existing Point
- Fit Curve
- Inverse Lines & Curves
- Intersection Computations: Bearing-Bearing (with offsets), Distance-Distance and Distance-Bearing
- Radial Stakeout
- Coordinate Transformation: Scale Change, Rotation, Translation, Conformal Transformation and DXF Transfer
- Other Utility Functions: Create Change Project Directory, Erase Existing Point, DOS Commands, etc.

IBM, MS-DOS and DXF are registered trademarks of International Business Machines Corporation, Microsoft Corporation and Autodesk, Inc. respectively.
ADVISORY COMMITTEES

ASSMT

Council Liaison:
R.F. Baker

Members:
H.L. Palindat, P.J. Sullivan

Terms of Reference:
1. Provide liaison between ALSA and ASSMT.
2. Liaise with the ALSA Legislation Committee regarding proposed expanded profession legislation.

REPORT OF ACTIVITIES

The 20th Annual Meeting of ASSMT was held on May 23, 1992 at Fort Edmonton Park. Mr. Craig Barnes, P.Eng., CLS, Assistant Director, Geodetic Section, Land Information Services Division, was the guest speaker for the meeting and addressed the topic of NAD83.

The following members were elected or appointed to fill the offices of the Society:

President ................ Ed Titanich
Vice President .............. Brian Irwin
Past President .............. Al Bowler
Council .................... Wayne Latam
Wayne Hughes
Jim Mortin
Executive Director .......... Stutt Pottruff
Registrar .................... Hugh Furber
Treasurer .................... Brian Irwin

ASSMT held regular scheduled monthly meetings on the 2nd Wednesday of each month except for July, August and December.

The Safety Certification courses which were designed by ASSMT have been steadily gaining recognition in industry and additional courses are being conducted as requested. In addition, various sectors in industry have been requesting copies of the Safety Manual for their operations.

The members are pleased that they have been receiving copies of ALS News. The agreement with the ALSA was that ASSMT would submit one article for publication in each issue of ALS News.

Membership in ASSMT appears to be on the increase and according to the members of the Executive Committee, this is attributed to the policy adopted by the ALSA stating that contract surveyors should be members of ASSMT. Also, with ASSMT and the ALSA pursuing discussions to recognize members of ASSMT within the ALSA structure appears to be attracting new members.

The 21st Annual Meeting of ASSMT has been scheduled for Saturday, May 15, 1993 in Red Deer.

CCLS

Members:
S.M. Loeppky (CCLS Director),
R.J. Fulton, T.W. Hudema,
S.H. Nichol

Terms of Reference:
1. New ALSA representative to be appointed November 1992 for a three year term.
2. Establish a committee to work with the the ALSA, CCLS Director.
3. Continue to coordinate with the CCLS Director on the issues of copyright, liability and privacy issues as applied to digital data as well as coordinate with the Legislation Committee

REPORT OF ACTIVITIES

The Council of the Alberta Land Surveyors' Association appointed S.M. (Syd) Loeppky, Alberta Director to CCLS at the November Council meeting. Outgoing Director, Vic Wolchansky, had served for many years with his final task being Chairman of the Strategic Planning Committee for CCLS.

A Board of Directors meeting was held on December 4-6, 1992 at the Chateau Laurier Hotel in Ottawa, Ontario. The main agenda item was to review the results of the Strategic Plan and implement an action plan for the period 1993-96. In concert with this review, the directors were given notice by the Quebec Ordre that it was their position that "the primary goal of the CCLS had been forgotten" and unless things were changed, the Ordre would discontinue its financial participation in CCLS.

Key decisions were:
1. The Board of Directors of the CCLS would be composed of the President of each member association or such other member of Council of that provincial organization designated by its President and shall serve a minimum of a two year term. An executive consisting of a Chairperson and a Vice Chairperson shall be elected from among the directors.
2. Only one Director's Meeting would be held each year and the costs for attendance would be borne by that Director's member association for any amount in excess of $500.
3. Any projects undertaken by CCLS would be under a "user pay" basis. In addition to the Director's AGM, a meeting would be held (at the half year interval) to be chaired by the CCLS Chairperson and attended by the project managers and other personnel (if required) working on CCLS projects.
4. The CCLS Secretariat would be reduced considerably and have five objectives:
   • the organization of annual general meetings,
   • the technical support to teams taking responsibility for projects agreed to,
   • the design and production of information bulletins,
   • representing the Board (correspondence, meetings with external organizations, etc.)
   • financial management of the Board.

The concept of a smaller Board, user pay, and a reduced secretariat would result in a reduced budget and the member fee would be scaled down accordingly.
A Director's Teleforum on December 21, 1992 confirmed that the Quebec Ordre would not renew its membership in CCLS in 1993. As a result, each member association was requested to submit scenarios of ways to compensate for the loss of revenue. Directors were advised on February 22, 1993 that Suzanne Jacques had resigned as CCLS President. Ed Grenkie has assumed the presidency and Craig Nightingale (Newfoundland Director) will serve as Vice President until the next AGM.

Other topics discussed at the Ottawa meeting included:
1. Title Insurance.
3. Copyright - a report was presented by Alberta dealing with liability and privacy issues.
5. Land Surveyors Ultimate Limitation Period.
6. A Canadian Proposal Regarding the General Agreement on Tariffs and Trade Negotiations as it Relates to Surveying Services.
9. A "Protocol Agreement" between the Manitoba Bar Association and Land Surveyors regarding the use of Real Property Reports.
10. A request for accreditation by the University of Laval. The next Annual General Meeting is scheduled to follow the ALSA meeting in Edmonton on April 18-20, 1993.

**Ministerial Advisory Committee on LRIS**

**Member:**
G.E. Olsson

**Terms of Reference:**
The Ministerial Advisory Committee on LRIS (MAC) advises the Minister of Forestry Lands and Wildlife on proposed strategies, policies and priorities for the development of LRIS in Alberta. Membership is comprised of representatives from about 18 Alberta organizations of which is the Alberta Land Surveyors' Association.

**REPORT OF ACTIVITIES**

During the last term MAC held two meetings to review LRIS proposals and to provide input. The first was held on June 17, 1992 and the second was held on October 27, 1992.

In 1992 Land Information Alberta (LIA) after many years of planning and development opened its doors for business providing on line access for land related information including: land titles searches, public land searches, registered plan searches and others. Later releases are planned which will not only provide access to additional data but will also provide some integrated products. At the time of writing LIA had a total of about 135 subscribers of which about 8 are survey firms. If you wish to have a representative from LIA talk to you please call Alberta LRIS at (403) 422 1413.

Alberta LRIS was affected by the announcement in early February of the formation of a new government agency to provide a one window approach for providing information and services to Albertans. The new agency tentatively called the "Alberta Consumer Assistance and Registry Service" will include the Alberta Land Related Information System along with other service agencies such as the Motor Vehicles Division, Land Titles and Personal Properties and Vital Statistics Registry.

Inclusion of LRIS in the Alberta Consumer Assistance and Registry Service is viewed as positive by LRIS. Since Land Titles and Personal Properties will also be part of the new agency it is anticipated that greater cooperation will occur in providing one window access to land related information - a concept that the Alberta Land Surveyors Association has continually promoted.

In the future, Land Information Alberta (LIA) expects to enter into business relationships with private organizations in the provision of additional land information products and services to that provided by LIA. Private organizations providing these services would be called "Value Added Resellers" (VAR's). Inclusion of LRIS in the Alberta Consumer Assistance and Registry Service is not expected to change this policy. Additional land information products and services could include integration of data, customizing products, data analysis, consultation, training, and many other services.

Alberta Land Surveyors should be in a good position to take advantage of some of the new opportunities that will become available by becoming VAR's. They have a good understanding of spatial data handling and experience gained in parcel mapping should also provide an advantage.

A position paper should be available in late March. This paper will be outlining a government proposal for value added reselling. LRIS will also be asking for input and comment on the proposal. Following a review of comments a policy will be developed. If you would like further information or a copy of the position paper please contact:

Pat Merrick
Land Information Alberta
950, 9942-108 St. NW
Edmonton, AB
Telephone: (403) 422-1413

At the present time MAC is standing by waiting to see what role, if any, it will play in the future. Even under the old Department of Forestry, Lands and Wildlife it was anticipated that within a year most of its functions would be replaced by a management board. Barry Giffin, Executive Director of LRIS, has said that whatever may happen there will continue to be a need for input from the Alberta Land Surveyors Association.

MAC before the announced inclusion of LRIS in the Alberta Consumer Assistance and Registry Service, had agreed to continue to function until January 1, 1994. I expect that it will be replaced by some other sort of an advisory board or committee within the year.

**Recommended Terms of Reference:**
To represent the Alberta Land Surveyors Association on any new LRIS advisory board or committee that may be established in the future.
Steering Committee
Acting Chairman:
G. Hammond

Members:
R.F. Baker, J.M. Byrne,
D.G. Clayton, B.M. Cooley,
W.R. Dabbs, I. Douglas,
R.J. Fulton, G.L. Haggerty,
B.W. Dudim, N.R. Mattson,
P.M. Michaud, L.M. Pals,
B.E. Winton

General Purpose:
To act as an advisory body reporting
to Council in the areas of committee
function and communication and to
develop policy recommendations for
the ongoing governance of the Associa-
tion.

Duties/Assignments:
To assist Council, the committee
will undertake the following duties:
- To review committee plans to
  ensure communication and to
  ensure implementation.
- To develop a reporting structure
  with each committee to allow for the
  monitoring and evaluation of
  progress (at least quarterly).
- To identify and recommend addi-
tional resources as required from
  time to time.
- To prepare an annual operating plan
  including a budget.
- To prepare a yearly evaluation of
  the committee’s accomplishments
  of these terms of reference, recom-
  mending changes and amendments
  for the following year.

Appointments and Composition:
The committee will consist of chair-
men of all committees and boards, the
President, and the Executive Director.
The Chairman will be the Vice Presi-
dent of the Association who will also
report to the Executive Committee.

Duration of Appointment:
Automatic.

REPORT OF ACTIVITIES

The Strategic Planning Steering
Committee was created as a sub-com-
mittee of the Executive Committee for
the purpose of overseeing the imple-
mentation of the Strategic Plan through
the various committees. This commit-
tee was formulated in June and the
following people were members of that
committee:
- D.R. Jaques - Chairman
- G. Bondarevich, W. Fawcett,
  K. Gesell, W. Hucik,
- S. Loepky, J. Van Dam,
- J. Wallace.

This committee, in its early meet-
ings, assigned the various committee
members as liaisons with the standing
and statutory committees. The purpose
was to ensure the appropriate commu-
nication linkages were established with
the various committees, which in turn
would support the Steering Committee
in assisting the committees with their
activities relate to the implementation
of the Strategic Plan.

A workshop was held in September
wherein the committee worked with
Mr. Grant Hammond of the Hammond
Consulting Group, to establish the
terms of reference and action plans.

Several meetings were held how-
ever, this committee continued to strug-
gle with the ability to communicate
effectively with the other ALSA com-
mitees. In an effort to remedy the
situation, the Steering Committee met
with all the committee chairmen in
December. As a result of that meeting
it was agreed that the Strategic Plan-
ing Steering Committee in its inaugu-
ral form was not working and that it be
disbanded and reorganized again. It
was restructured with its members be-
ing all ALSA committee chairmen.
Approval was given for this restruct-
uring and the new Steering Committee
met early in January and formulated a
number of recommendations which you
have been apprised of in the Council
Report circulated at the end of January.
This committee will be meeting
again on March 13, 1993 to evaluate
and make recommendations for the
coming year as well as make sugges-
tions for the agenda of the annual
planning meeting which will be held in
May.

This committee has an acting chair-
man until the Annual General Meet-
ing, that being Mr. Grant Hammond.
Commencing in May 1993 the chair-
man of this committee will be the Vice
President of the ALSA, as per the
agreed to terms of reference.

U of C Advisory Committee to
the Department of
Geomatics
Engineering

Member:
B.M. Cooley (appointed by the
University of Calgary)

Term of Reference:
The Surveying Engineering Advi-
sory Committee (SEAC) assumes the
responsibility of ensuring that the un-
dergraduate, graduate and research
programs are kept up to date with
changing technology and meet the
needs of the country, with special at-
tention to Western Canada.

Guidelines:
1. The Committee will be balanced to
  reflect as many facets of the course
  content as possible. This will in-
clude representation from profes-
sional associations, government in-
nstitutions and the private sector.
Representation from the major dis-
ciplines of surveying engineering
will also be sought.
2. The selection of replacement mem-
ers of the Advisory Committee will
be from suitably qualified people,
made by the Department Head, in
consultation with the Committee.
3. The Head of the Department and the
Associate Head(s) will be ex-officio
member of the committee.
4. The term of office for members will
be a maximum of three years with
the principal rotation to maintain
perpetuation of experience.
5. There should be a minimum of one
meeting per year, normally held on
the premises of The University of
Calgary.

Function of the Committee:
To advise the Department of Sur-
vying Engineering on:
1. The content of the courses.
2. The acceptance of graduates into
the working environment.
3. Scholarships and bursaries.
4. Professional education.
5. Research matters.
6. Any other matters referred to it by
the Department.
Structure of the Advisory Committee:
The Surveying Engineering Advisory Committee shall normally consist of
the following representation:
1. Three representatives from federal
and provincial government institutions.
2. Three representatives from professional
surveying and engineering
associations.
3. Three representatives from the private
sector.
4. Three representatives-at-large.
5. Department Head and Associate
Head(s).
6. The Chairman of the Committee.

Representation from the above first
four groups shall be subject to the
following constraints:
(i) There shall be at least one repre-
sentative from each one of the
four western provinces.
(ii) There shall be a minimum of five
land surveyors duly registered as
BCLS, ALS, SLS, MLS, or CLS.
Representatives satisfying criteria
(i) and/or (ii) shall be responsible to
report the activities of SEAC to their
respective provincial land survey and
engineering associations.
The external members will be se-
lected to maximize coverage among
the major disciplines of surveying en-
gineering such as:
- cadastral and legal surveying
- cartography
- geodesy and navigation
- geographic and land information
  systems
- hydrography
- photogrammetry and remote sens-
ing
- precise engineering surveys

REPORT OF ACTIVITIES
November 1991 - November 1992

Major Events:
- Name change approved - June 11,
  1992
- Accreditation by CCLS
- Positive signals from CEAB accredit-
ation team
- Appointment of Dr. Li to SIS-posi-
tion
- Very strong research performance

Undergraduate Studies:
- Restructuring of common core al-
most completed. At least three Geo-
matics courses in second year.
  Teaching of common core courses
  in first year.
- Proposal for 'Internship Program'
goings strong.
- Student numbers are low - quality
  is up. Major effort to increase num-
  bers next fall.
- Upcoming first and second year are
  strong, percentage of women - up to
  21%.

Graduate Studies:
- High numbers - high quality.
- 36 full-time, 9 part time.
- Three NSERC graduate awards, two
  major Alberta scholarships.
- Two best paper awards at ION con-
  ference.
- 30% of graduates are women (last
  six years)

Research (May 91 to April 92):
- Record year: 50% increase to
  $1,085,512 p.a.
- Total number of projects: 57
- Very strong support by NSERC and
  Federal Government.
- Highest percentage increase in indus-
trial research
- Provincial funding at lowest level
  ever.
- Joint projects between faculty mem-
  bers up to 60% of total.
- Trend is continuing. Prediction for
  next year: $1,400,000 (current:
  $1,285,000). Increases: Industry,
  NSERC, foreign.

Concerns:
- Base budget cuts.
- Low undergraduate numbers.
- Inadequate lab facilities

---

WCBE

Members:
B. W. Gudim, J. E. Rasmussen

Term of Reference:
Provide liaison between the
ALSA and the WCBE.

REPORT OF ACTIVITIES

One meeting was held on April 13,
1992 to deal with the examination
report and business affairs of the West-
ern Canadian Board of Examiners for
Land Surveyors. In addition, the im-
pending transfer of the Canada Lands
Surveyors Board of Examiners respon-
sibilities to the Association of Canada

Lands Surveyors in 1995 and the effect
on the WCBE was addressed. Dis-
sussion also centered on the authority
of the Universities Coordinating Council
of Alberta as it relates to the WCBE.

Mr. Swanby's term as Registrar ex-
pired on April 30, 1992 and he was
replaced by Dr. A. McEwen. Samuel
Doyle of Manitoba was elected as Chair-
man, Bruce Gudim of Alberta as Vice
Chairman, and Jerry Rasmussen of Al-
berta as auditor.

Recommended
Terms of Reference:
To act as directors representing the
Alberta Land Surveyors' Association
on the Western Canadian Board of
Examiners for Land Surveyors.

---

TAXATION

The art of so
plucking the goose
as to procure the
most feathers with
the least possible
amount of hissing.

18th century French Maxim
Attributed to Jean Baptiste
Colbert, also to Talleyrand
AD HOC COMMITTEE

Central Repository for RPR's
Council Liaison: H.E. Impey
Chairman: R.J. Fulton
Members:
G.K. Allred, B.L. Benson,
D.R. Jaques, A.L. Melton,
N.R. Mattson, S.H. Nichol,
L.M. Pals, R.M. Wallace,
K.E. White

Terms of Reference:
1. Develop specifications for a pilot project.
2. Present a plan to Council for a pilot project.
3. Implement and monitor a pilot project.
5. Investigate and report on all matters necessary to implement a central repository for the long term.

REPORT OF ACTIVITIES
On August 7, 1992 members of this Committee and the Executive Committee of the ALSA met with representatives of LISD/LIA to discuss the possibility of expanding the present plan index system to accommodate Real Property Reports. LISD/LIA advised that such an index system should be developed and operated by the ALSA as they perceived it would benefit only the private sector survey community. LISD/LIA however, expressed some interest in acting as distributor of information if a system becomes operational.

On September 24, 1992 the Committee met to consider what further action should be pursued. It was agreed that a provincial index system of Real Property Reports would be an appropriate and necessary forerunner of any true repository system. The reasons for this decision of the Committee are:
- An index system can be implemented relatively economically on a provincial basis.
- An index system would have immediate benefits in terms of improved communication between surveyors, and between surveyors and the public.
- An index system would have a beneficial impact on our public image.

To this end, a proposal was obtained from a consultant to assist with definition, market study, and design of a provincial index system for Real Property Reports. On January 11, 1993 the Committee met to review this proposal, accepted same, and agreed to submit a request for funding to Council.

On January 27, 1993 the Chairman attended a meeting of Council to present this request for funding. A final decision of Council was rendered on February 24, 1993 at which time the funding request was refused.

Recommendations to Council:
With refusal of funding for consultant services, and since a market study is deemed absolutely critical to the design and financing of either a pilot repository or a provincial index system, it is recommended that no further action be taken at this time and the committee disbanded.
"Joe Do-it-yourselfer" is determined to "help out" in order to reduce costs and expedite his simple subdivision.

You all know the scenario! But what do you do to avoid liability and charges of professional negligence when Joe's exuberance, lack of knowledge and understanding, lackadaisical attitude, unscrupulous conduct, or just plain disrespect for due process, causes things to go wrong, and your plan gets registered and becomes the subject of controversy?

Your client's indiscretion now becomes your problem!

The following is intended to paraphrase the circumstances which led to a recent disciplinary hearing. The members aware of circumstances which could easily lead to civil liability and/or disciplinary action through minor oversights or delegation of duties to parties over which the land surveyor may not have complete control. In view of the educational intent of the article, names have been withheld.

Relevant Facts

Basically, this situation arose out of a request by a landowner to retain the services of a land surveyor to facilitate subdivision of a 12 hectare parcel of land into 5 lots. The arrangement between client and surveyor was that the surveyor would provide the surveying and drafting services, and the client would be responsible for all of the required endorsements, approvals, and signatures.

The surveyor assisted in the preparation of the tentative plan and the necessary approvals were obtained. Minor revisions were subsequently made and were approved by the subdivision approving authority. The surveyor completed the survey and plan and released same to the client who promptly obtained the necessary municipal and planning endorsements.

Sometime prior to receiving the endorsements and completion of the final plan, the owner entered into a conditional agreement for sale with a prospective purchaser for one of the proposed lots. The sale was based on a preliminary plan which showed the area of the lot to be 1.66 hectares. The surveyor was not made aware of the agreement for sale.

Several months after completion of the survey and endorsement of the plan by the approving authorities, the owner requested that one boundary be shifted about 10 metres. This shift reduced the area of a 1.66 hectare lot by 0.02 ha and placed a small but perhaps significant improvement outside the boundaries of the lot which was the subject of the agreement for sale. The surveyor revised the survey and the plan, but did not revise or reaffirm the surveyor's affidavit.

The plan was returned to the client through the surveyor's draftsman and partner with the verbal instruction from the surveyor that the plan would have to be re-endorsed by the subdivision approving authority. Unbeknownst to the surveyor, the client did not get the plan re-endorsed but rather, delivered the plan to his lawyer who proceeded to have the plan registered in the Land Titles Office.

Several months after registration, the prospective purchaser complained to the surveyor that he had amended the plan and that the proposed lot was now smaller than the lot upon which the agreement was based. At the time, the surveyor was not even aware that an agreement for sale had been made, or that the plan had been registered, or that it had not been re-endorsed by the approving authorities. The purchaser filed a complaint with the professional association which subsequently led to the allegations and the hearing. The surveyor, when he found out what happened, of his own volition and at his own expense, took steps to register a new plan in accordance with the approval of the subdivision approving authority.

Findings

Two items of questionable judgement or oversight on the part of the surveyor put him in a difficult position upon the lodging of the complaint. Firstly, the surveyor in making the final amendment did not amend the final date of survey in the affidavit and re-affirm the plan before a Commissioner for Oaths. Secondly, the instructions that the plan must be re-submitted to the subdivision approving authority should have been put in writing and delivered with the plan to the client. Alternately and perhaps the most responsible solution would have been for the surveyor to personally ensure that the approving authority was advised of and in agreement with the amendments. These few precautions would have saved the surveyor the cost of a new plan and
considerable time and grief in attendance before a discipline committee.

The disciplinary tribunal in considering this matter, reviewed the circumstances of the complaint and the actions leading up to the hearing, concluded that the actions of the land surveyor constituted neither unskilled practice of surveying nor unprofessional conduct. The complaint was therefore dismissed.

The disciplinary tribunal in reaching their decision, reviewed the responsibility of a land surveyor in obtaining the required endorsements. It was agreed that ideally, the land surveyor should personally see to obtaining the endorsements required to permit registration of his plan of subdivision. In view of the fact that there is no statutory requirement or standard of practice, and the normal practice of the profession varies depending upon circumstances, the tribunal concluded that there were no mandatory provisions relative to the obtaining of endorsements.

It was agreed that the registration process would prevent a plan from being registered without the required endorsements however, there was no way the system could be expected to catch a change which had been made after endorsement. This situation places an obligation on the land surveyor to exercise caution and protect himself and his reputation from the oversights of other parties whether they be his own staff, his clients, or other professionals upon whom he must rely.

A mitigating factor in this particular case was the fact that the surveyor when confronted by the complainant regarding the deficiency in lot area, took ownership of the problem, looked into the matter, discovered what had transpired, and took immediate steps to rectify the situation. He also testified that his normal practice when revising a plan was to reaffirm it before a Commissioner of Oaths.

Conclusion

Despite the fact that in this particular case the Discipline Committee concluded that the surveyor's practice did not constitute either unskilled practice or unprofessional conduct, the disciplinary tribunal is concerned that similar circumstances could result in far more serious consequences not just to an individual surveyor but also to the credibility of the surveying profession. The planning and registration process places a considerable amount of trust and reliance on professional land surveyors. It is incumbent upon land surveyors individually and collectively to take precautionary steps to ensure that the public's confidence continues to be warranted and, in fact, guaranteed.

THE DISCIPLINE COMMITTEE
NEW
Faster distance measurement
The built-in EDM now supports both coarse and fine measurement resolution of 1mm (0.01 ft). The EDM is almost twice as fast as previous models. After the first measurement, fine measurement values are updated every 3.2 seconds. Coarse measurement is updated every 0.7 seconds and tracking measurement, every 0.3 seconds.

NEW
More powerful memory card
The standard memory card now boasts a capacity of 64 K bytes, sufficient for up to 1000 measured target points (distance + angle measurement). Optional cards provide up to 256K bytes of capacity (4000 target points). Access speed is eight times faster than the previous card.

Job files and code files streamline data organization and access. Coordinates data can be written directly to the card via keyboard entry, and enhanced recall functions allow coordinate data and code files stored on the card to be displayed on the instruments.

NEW
Powerful on board battery
The new BDC25 rechargeable battery supports up to 2.5 hours of consecutive operation on a single charge (approx. 2,600 measurement points, distance + angle measurement mode). Two batteries are supplied with each SERIES C instrument.

NEW
Improved accuracy in angle reading
A dual-axis compensator detects deviation of the standing axis from perpendicular in both sighting and trunnion directions and automatically applies the necessary correction to angle readings. The Collimation program calculates the collimation error between the center of the telescope reticle and the sighting line to correct the displayed angles automatically. The 0 point error in the vertical circle encoder and the tilt sensor can also be eliminated.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>SET 3C</th>
<th>4,000 m (13,000 ft) range with 9 prisms 3mm + 3ppm - D every 3.2 sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angle</td>
<td>1'/5' (0.2mg/1mg) resolution 3' (1mg) accuracy</td>
</tr>
</tbody>
</table>

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President's Travel

Corporation of Land Surveyors of the Province of British Columbia

I had the pleasure on January 18 to January 22, 1993 to attend, on behalf of the Alberta Land Surveyors' Association, the 88th Annual General Meeting of the Corporation of Land Surveyors of the Province of British Columbia.

President Jim Sharpe opened the meeting promptly at 9:00 a.m. and asked the visiting delegates from Washington State, Canadian Council of Land Surveyors, the Association of Canada Lands Surveyors, Canadian Institute of Geomatics, University of Calgary, and the provinces of Alberta, Saskatchewan, Manitoba, and Ontario. As the Annual General Meeting of the New Brunswick Land Surveyors was being held at the same time, there was no representation from a provincial association east of Ontario.

Mr. Sharpe, in his presidential address, commented on the Bill presently before the Ministry, addressing incorporation. After the Corporation has addressed the definition of land surveying and practice of surveying and the benefits and disadvantages of incorporation to the public, the earliest the Bill could be dealt with is the spring of 1994.

President Sharpe also commented that the Corporation would continue to pressure for an expanded profession, continuing education, and go on record as supporting maintenance of survey integrated areas and also new areas.

J.W.P. Matthews, retired member of ALSA, was accorded a life membership in the Corporation. The criteria for this distinction is 65 years of age, 35 years of service, and providing distinguished service to the Corporation.

A bylaw amendment was adopted by the Assembly to have the title of certificates of location include the words "B.C. Land Surveyor's Certificate of Location." In response to questions raised regarding changing the wording to B.C. Land Surveyor's Real Property Reports, to be in harmony with a national standard, it was commented that with the pending litigation with the technologists and all municipalities have buried in their bylaws the words "Certificate of Location" it was in the best interests of the Corporation to retain the words "Certificate of Location.

Dr. Alec McEwen was given the opportunity to address the meeting on the name change of the Department of Surveying Engineering at the University of Calgary and proposed professional internship. Dr. McEwen concluded his remarks on his position with the Western Canadian Board of Examiners. Suzanne Jacques, President of the Canadian Council of Land Surveyors, addressed the meeting regarding the results of the Strategic Plan Audit. Hard copies of the audit results were to be available to each provincial association in the near future. Ms. Jacques also commented that the Quebec Association withdrawing from the CCLS as a Board decision rather than one of the membership.

Surveyor General, Don Duffy, provided the assembly with the progress of the active control system being implemented jointly by the province and the federal government. According to Mr. Duffy, four unmanned GPS stations would be setup on control points in 1993 on a trial basis.

As a final motion under new business, the members present at the meeting adopted a motion to proceed with a strategic plan.

Gordon Kilbride of Prince George was elected as President, with Jon Magwood, Noel Peters, and Dick Wright as members of the Board.

Association of Manitoba Land Surveyors

On November 18, 1992 I attended the 112th Annual General Meeting of the Association of Manitoba Land Surveyors in Winnipeg, Manitoba.

On the first morning, guests from various sister and allied organizations from across Canada and states across the International Boundary were called on to bring greetings from their respective associations.

One of the highlights of the meeting was a video showing the historic survey of the Ontario/Manitoba Boundary entitled "The Lively One" which had been compiled and shown previously at the 100th Anniversary of the Association of Ontario Land Surveyors in 1992.

Luncheon speaker, Colin MacArthur, Q.C. provided an interesting address on the topic of advocacy in the Association which was well received.

Following the luncheon, a round table discussion on the development and effect of the protocol was hosted by the President, Les McLaughlin, with Bruce King, Co-Chairman of the Real Property Subsection of Manitoba Bar Association. During the course of the discussion, comments were made that there was some resistance by lawyers for updated Building Location Certificates. It was also reported that public education on the function and needs of the Building Location Certificates had been conducted. The Law Society of Manitoba has not as yet determined there was a problem on the copyright issue and has not issued any directive to their members.

Suzanne Jacques, President of the Canadian Council of Land Surveyors, was present and provided a report on the results of the strategic plan audit that was conducted recently.

Dr. David Woolnough, President of the Canadian Institute of Geomatics, provided a summary of the new image that was being promoted by the institute.

A motion was adopted by the meeting that the Association of Manitoba Land Surveyors award to students at the University of Calgary, attach a caveat that the student take a course in cadastral studies.

A five year plan for the Association was presented and adopted.

Samuel Doyle, M.L.S. was elected as President with Ken Yerex, Gerry Hawryluk, and Laurie LeClair being elected to Council.

R.F. BAKER, A.L.S.
PRESIDENT
The conference theme "Celebrating Our Heritage, Charting Our Future" will allow in-depth discussions on tomorrow's predictions, today's advances and yesterday's achievements, and will feature the culmination of the year-long authentic construction and in-conference demonstration of a 1792 vintage sounding launch.

National and International authors are currently being invited to present papers at plenary, concurrent and poster sessions.

Look for new opportunities at the exhibition of latest equipment and services by companies from surveying and related disciplines.

The classic Royal York Hotel in downtown Toronto will be your host. Enjoy the comfort of the hotel's modern facilities, just a short walk or ride from a wide variety of entertainment, restaurants, dinner theatre or a Blue Jays baseball game at the SkyDome.

Renew old friendships and make new contacts at a variety of social events. Luncheon and evening events are planned to ensure an unforgettable experience.

The annual general meetings of the Canadian Institute of Surveying and Mapping and the Canadian Hydrographic Association will be held during the conference.

FOR MORE INFORMATION ABOUT ATTENDING, PRESENTING PAPERS, EXHIBITING EQUIPMENT AND SERVICES, AND OTHER CONFERENCE DETAILS, CONTACT:

1993 Surveying and Mapping Conference
P.O. Box 186, Station Q, Toronto, Canada, M4T 2M1
Phone (416) 336-4812 / FAX (416) 336-8916
Cabot College of Applied Arts
Introduces a Cooperative Surveying Engineering Technology Program

The Cabot College of Applied Arts, Technology and Continuing Education in St. John's, Newfoundland has introduced a cooperative Surveying Engineering Technology program comprised of six academic terms and three mandatory work terms, completed over a period of 36 months.

The addition of three, four-month, work terms means that the student will graduate having one full year of invaluable work experience.

The original Surveying Engineering Technology program was established as a two year program in 1963. In 1980, it was expanded to a three year program to incorporate the special surveying skills required for work in the marine environment, particularly the east coast off-shore. These new skills were utilized by approximately 30 of our graduates in special projects in the Norwegian sector of the North Sea over a two year period in 1986/87. The Scandinavian project managers rated the skills of our technologists higher than the skills of comparable European Technologists.

The new course of study includes plane and advanced surveying, hydrography, photogrammetry, cartography, exploration geophysics, municipal engineering, geology, digital mapping, geographic information systems, survey law, economics, technical report writing, and management.

In addition to theoretical instruction, the student obtains considerable field experience during field labs, five field camps, and three work terms.

The program delivery schedule is as follows:

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<th>September - December</th>
<th>January - April</th>
<th>May-August</th>
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<td>Academic Term 1</td>
<td>Academic Term 2</td>
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<tr>
<td>Year 2</td>
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<td>Academic Term 4</td>
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<tr>
<td>Year 3</td>
<td>Academic Term 5</td>
<td>Work Term 3</td>
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</table>

The first class was admitted in September 1991 and the first work term students were placed starting in September 1992. A second group of students will be available for a four month work term starting May 1, 1993.

Cabot College invites employers to participate in the program by employing students for a work term. Some of the benefits of employing a coop student in surveying Engineering Technology are:

- the employer can evaluate potential future full-time employees;
- the employer can hire a student who does not require a job;
- employers have more direct input into the public education system.

Cabot can also facilitate the application/interview process and provide information on employment subsidies.

For further information on hiring a co-op student or on the program, please contact:

Max Batten
Cooperative Education Coordinator
Cabot College of Applied Arts
Technology and Continuing Education
P.O. Box 1693
St. John's, Newfoundland A1C 5P7
Tel: (709) 778-2266 or 778-2610
Fax: (709) 778-2653

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Survey Law in Canada
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Regional Meetings

Calgary
Tuesday
March 30, 1993
Calgary Winter Club

Edmonton
Wednesday
March 31, 1993
Mayfield Inn

6:30 p.m. - Cash Bar
7:00 p.m. - Meeting
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Heavy gauge 8mm/5/16" wide x 0.50mm/0.20" thick steel has black markings against hard chrome background further protected by 'Luftkote' to provide tapelines suitable for use under the most adverse weather and site conditions.

<table>
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<th>Tapes</th>
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<td>C50100MB</td>
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<tr>
<td>RC50100MB</td>
<td>$524.59</td>
<td>$245.00</td>
</tr>
</tbody>
</table>

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<tr>
<th></th>
<th>List</th>
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<td>Y35ME 5m/16' x 19mm/3/4&quot;</td>
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<td>$12.75</td>
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<td>Y35CME 5m/16' x 19mm/3/4&quot;</td>
<td>$25.66</td>
<td>$12.75</td>
</tr>
</tbody>
</table>

Imperial and metric (millimetre) graduations.

Lufkin SERIES 2000 POWER TAPES

The most comfortable power tape ever made.

* Round impact resistant case
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* Cushioned blade return
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<td>2034CME 4m/13' x 19mm/3/4&quot;</td>
<td>$21.88</td>
<td>$10.95</td>
</tr>
</tbody>
</table>

List Prices in Effect until April 30, 1993, while supplies last.
Same special prices as last year...Am-Tech is helping you to save money.
ASSMT Safety Certification Program

The Alberta Society of Surveying and Mapping Technologies has researched and developed a comprehensive safety education program for those involved in the survey industry. This Safety Certification Program was created with the financial support of the Alberta Government Occupational Health and Safety Heritage Grant Program and input from survey industry contractors, Alberta Construction Safety Association, Alberta Occupational Health & Safety, Upstream Petroleum Contractors, Alberta Safety Council, major oil companies and experts in the field of Safety Education.

Surveyors and Technologists are required to work in a wide variety of settings which contain potentially hazardous circumstances. Survey companies are often contracted to perform specific services of a limited duration and therefore, are not usually part of on-site safety training or overall project safety plans. Many companies are small and do not have the resources to develop comprehensive safety training programs for personnel. This scenario may leave surveyors/technologists unprepared to deal with - or evaluate objectively - safety and risk factors on the job site.

The Alberta Society of Surveying and Mapping Technologies (ASSMT) Safety Certification Program will provide:

- Course instruction by safety professionals to ensure high program quality.
- The latest safety information in Construction, Oilfield and Bushwork applications.
- Certification in Chainsaw Operation, All Terrain Vehicle Operation, and H2S Alive training issued by National governing bodies and recognized by major oilfield companies, upstream contractors, and government agencies.
- A comprehensive Safety Information Manual for each participant - a permanent, handy reference on the job site.
- A personalized Certificate for each participant.
- A permanent record of certification earned - tracked by the ASSMT.

**PROGRAM CONTENT**

1. **Construction**
   **Instruction in:**
   - Survey Operation in Traffic
   - Overhead Power Line Safety
   - Heavy Equipment Awareness
   - Excavation & Trench Safety
   - Vehicle Inspection
   - Personal Protective Equipment
   - Buried Services Safety
   - Fire Safety
   - Confined Space Safety
   - WHMIS

2. **Bush Work**
   **Instruction in:**
   - Ice Safety
   - Vehicle Inspection and Safety
   - Fire Safety
   - Wilderness Survival
   - Chainsaw Safety
   - Snowmobile Safety
   - Winching & Towing
   - Helicopter Safety
   - Overhead Powerline Safety
   - Bear Awareness
   - ATV Safety

3. **Oilfield**
   **Instruction in:**
   - Hydrogen Sulphide Safety
   - Seismic Safety
   - WHMIS
   - Buried Pipe Safety

4. **ATV Operation Certificate**
   This hands-on course introduces the rider to safe principles and practices in the use of an ATV. Participants will learn techniques for steering, braking, riding slopes and water crossings. Instruction will also include trail hazard evaluation, environmental impact consideration, basic maintenance, proper personal protective equipment and emergency procedures. Participants will receive a nationally recognized certificate of competence issued by the Alberta Safety Council.

5. **Chainsaw Certification**
   Sanctioned by the Canadian Association of Geophysical Contractors (CAGC) and the Upstream Petroleum Industry Task Force on Safety (UPTFOS), this course deals with all aspects of chainsaw operation. Topics include service & maintenance, personal protective equipment, saw control, kickback felling techniques, snags, brushing, and emergency procedures. Participants receive certification issued by the CAGC.

6. **H2S Alive**
   This is an internationally recognized certification that has become the standard preparation for those working in sour gas fields. Instruction is provided in the physical properties of Hydrogen Sulphide gas, detection techniques, physiological effects of H2S, personal protective equipment and emergency procedures.

The six modules are one day courses except for ATV Certification and Chainsaw Certification which are half day courses. The cost of each module is approximately $100 to $120 depending on class size.

In order to prepare the presentation of these modules, ASSMT is conducting a survey. In pursuing this we ask that you complete the enclosed questionnaire and fax or mail your response to one of the following:

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Stutt Pottruff Fax: 241-3897
Ed Titianich Fax: 427-1493
Al Bowler Fax: 427-1493
Tony Stevens Fax: 228-1310
Seventh International FIG Symposium on Deformation Measurements
together with
Sixth Canadian Symposium on Mining Surveying

BANFF, ALBERTA
CANADA
May 2 - 6, 1993

Commission 6 of the International Federation of Surveyors (FIG), the Canadian Institute of Geomatics (CIG), the Department of Geomatics Engineering - The University of Calgary, and the Department of Surveying Engineering - University of New Brunswick present the Seventh International FIG Symposium on Deformation Measurements and the Sixth Canadian Symposium on Mining Surveying.

Presented papers will cover new methods in mining surveying, deformation monitoring of large structures, industrial metrology, numerical methods in deformation modelling and GIS/spatial data management in mining and deformation surveys. Exhibits on the latest instrumentation and systems for deformation measurements are also planned. Further information may be obtained from:

Dr. Bill Teskey
FIG Banff 1993
Department of Geomatics Engineering
The University of Calgary
2500 University Dr. N.W.
Calgary, Alberta, Canada
T2N 1N4

Tel: (403) 220-5834  Fax: (403) 284-1980
# 1992 Questionnaire Results

**Income and Benefits Survey - Active Members**

*All replies average annual (all inclusive)*

*(Bracket number indicates number of replies)*

<table>
<thead>
<tr>
<th>Registration Year</th>
<th>Private Practice Owners</th>
<th>Private Practice Employees</th>
<th>Industry Government &amp; Education</th>
<th>All Private Practice</th>
<th>All Replies</th>
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<td>(0)</td>
<td>(0)</td>
<td>(0)</td>
<td>(0)</td>
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<td>1986 - 1991</td>
<td>(8) 54,875</td>
<td>(6) 54,168</td>
<td>(1) 56,000</td>
<td>(14) 54,572</td>
<td>(15) 54,667</td>
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<tr>
<td>1980 - 1985</td>
<td>(10) 75,500</td>
<td>(1) 50,000</td>
<td>(3) 59,000</td>
<td>(11) 73,182</td>
<td>(14) 70,143</td>
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<tr>
<td>1975 - 1979</td>
<td>(19) 61,477</td>
<td>(2) 51,500</td>
<td>(6) 60,167</td>
<td>(21) 60,526</td>
<td>(27) 60,447</td>
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<tr>
<td>1970 - 1974</td>
<td>(4) 67,125</td>
<td>(1) 48,000</td>
<td>(0)</td>
<td>(5) 63,954</td>
<td>(5) 63,300</td>
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<td>Prior to 1970</td>
<td>(6) 51,500</td>
<td>(6) 61,667</td>
<td>(2) 61,500</td>
<td>(12) 56,583</td>
<td>(14) 57,286</td>
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<tr>
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<td>(16) 56,000</td>
<td>(12) 59,750</td>
<td>(63) 60,882</td>
<td>(75) 60,701</td>
</tr>
</tbody>
</table>

**A. Year of registration** (check one)

- 1992
- 1986-91
- 1980-85
- 1975-79
- 1970-74
- Prior to 1970

**B. Nature of present endeavour** (enter appropriate number on line)

1. Private Practice - sole proprietor or partner 47
2. Private Practice - employee 16
3. Industry 0
4. Government and Education 12

**C. Percent of field of practice**

- 35% Municipal
- 31% Resource Development
- 13% Construction
- 21% Other

**D. Annual personal earnings as of year end**

*December 31, 1992 (estimated) - $60,700,87*

(Include salary or share of partnership or proprietorship profits; bonuses; overtime pay; profit sharing and similar items. Also, exclude any amount for employment benefits which are dealt with separately below and any amounts which are not survey income.)

**E. Office of employment**

1. Edmonton 29
2. Calgary 24
3. Other Alberta Centre 21
4. Outside Alberta 1

**F. Employment benefits received**

1. Payment of annual registration fees 73 2
2. Payment of professional development course fees 71 4
3. Payment of Annual Meeting expenses 69 6
4. Provision of car allowance, company car 49 16
5. Provision of pension plan participation 28 47
6. Provision of medical benefits plans 60 15
7. Provision of Stock Options 28 47

**G. Annual vacation, expressed in weeks**

- 2 weeks
- 3 weeks
- 4 weeks
- 5 weeks
- 6 weeks
- Over 6 weeks

<table>
<thead>
<tr>
<th>2 weeks</th>
<th>3 weeks</th>
<th>4 weeks</th>
<th>5 weeks</th>
<th>6 weeks</th>
<th>Over 6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>23</td>
<td>24</td>
<td>3</td>
<td>11</td>
<td>1</td>
</tr>
</tbody>
</table>

**H. Average work week = 47.55 hours**

**I. Allied qualifications**

1. Other Commissions 31 44
2. M.C.I.P. 1 74
3. Professional Engineer 16 59
# Results of the 1992 Survey Services and Average Unit Prices Survey

## A. SURVEY SERVICES 1992 (excluding GST)

### 1. Hourly Rates for Personnel

| (a) Field Supervisor (i.e. Party Chief II)   | $50/hr.   |
| (b) Two Man Crew                             | $73/hr.   |
| (c) Each Additional Field Person             | $22/hr.   |
| (d) Manual Drafting (person)                 | $45/hr.   |
| (e) CAD Operator (person)                    | $52/hr.   |
| (f) Calculations (person)                    | $47/hr.   |
| (g) Plan Searching, Printing, Job Setup      | $37/hr.   |
| (h) Final Plan Checker                       | $48/hr.   |
| (i) ALS Professional Fees                    | $77/hr.   |
| (j) ALS Hours Charged in Relation to Crew Hours Worked | 1.5 hrs. to 8 hrs. crew time |

### 2. Equipment, Material and Disbursements

| (a) Vehicle   | 2 wheel | $62/day or $.46/km. or $9.50/hr. |
|               | 4 wheel | $80/day or $.55/km. or $13/hr.   |
| (b) ATV       | 2 wheel drive quad | $73/day or $11.25/hr. |
|               | 4 wheel drive quad | $100/day or $8/hr. |
|               | Argos/Bobcat, etc. | $126/day or $15/hr. |
| (c) Snowmobile|          | $85/day or $10/hr.               |
| (d) EDM       |          | $62/day or $8/hr.                |
| (e) Total Station with Data Collector        | $110/day or $14/hr.               |
| (f) CAD Station                                | $60/day or $24/hr.                |
| (g) Computer Station                          | $43/day or $28/hr.                |
| (h) Application, Approval & Registration Fees | Cost + 11%                        |
| (i) Disbursements (LTO, ERCB, LISD, ENR, etc.) | Cost + 11%                        |
| (j) Communication Equipment                   | $20/day or $2.50/hr.              |
| (k) Subsistence                               | $55/meal/day or $12/meal or Cost + 10% |
| (l) Pipe Detector                              | $59/day or $10/hr.                |
| (m) Power Saw                                  | $49/day or $7/hr.                 |
| (n) Pin Locator                                | $50/day or $2/hr.                 |
| (o) Legal Iron Posts                           | $8/L.P.                           |
| (p) Legal Marker Posts                         | $11/M.P.                          |
| (q) Lath, Flagging, Spikes, Iron Bars          | $2/field hr. or Cost +13%         |
| (r) Printing & Drafting Supplies               | $32/draft. hr. or Cost +13%       |
| (s) Long Distance Telephone Calls             | $.63/field hr. or Cost +11%       |
| (t) Facsimile Charges                          | $2/page                           |
| (u) Deliveries                                 | $15/delivery or Cost + 11%        |
### B. AVERAGE UNIT PRICES 1992 (excluding GST)

<table>
<thead>
<tr>
<th></th>
<th>Total Dollar Volume</th>
<th>Average Per Survey Unit Price</th>
<th>High/Low</th>
<th>Total Number Surveyed</th>
<th>High/Low</th>
<th>Total Replies Unit Price</th>
<th>Total Replies Tariff</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. Lot Surveys (subdivision)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Residential</td>
<td>$1,087,575</td>
<td>$268</td>
<td>600/200</td>
<td>4056</td>
<td>800/1</td>
<td>31</td>
<td>22</td>
</tr>
<tr>
<td>- Commercial</td>
<td>65,850</td>
<td>477</td>
<td>1500/350</td>
<td>138</td>
<td>50/1</td>
<td>9</td>
<td>25</td>
</tr>
<tr>
<td><strong>2. Real Property Report</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Residential</td>
<td>2,668,350</td>
<td>321</td>
<td>500/230</td>
<td>8306</td>
<td>1800/1</td>
<td>44</td>
<td>13</td>
</tr>
<tr>
<td>- Commercial</td>
<td>616,150</td>
<td>676</td>
<td>1000/440</td>
<td>1073</td>
<td>500/1</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td><strong>3. Construction Stakeout</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Residential</td>
<td>1,116,650</td>
<td>485</td>
<td>800/100</td>
<td>2299</td>
<td>400/1</td>
<td>28</td>
<td>14</td>
</tr>
<tr>
<td>- Commercial</td>
<td>173,500</td>
<td>803</td>
<td>1200/600</td>
<td>216</td>
<td>50/1</td>
<td>13</td>
<td>25</td>
</tr>
<tr>
<td><strong>4. Condominium Surveys</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>69,445</td>
<td>180</td>
<td>235/100</td>
<td>385</td>
<td>100/2</td>
<td>13</td>
<td>17</td>
</tr>
<tr>
<td><strong>5. Descriptive Plans</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>210,000</td>
<td>482</td>
<td>950/300</td>
<td>435</td>
<td>50/1</td>
<td>29</td>
<td>11</td>
</tr>
</tbody>
</table>

### 1992 WAGE SURVEY FOR FIELD AND NON-PROFESSIONAL SUPPORT STAFF ENGAGED IN LEGAL SURVEYS

<table>
<thead>
<tr>
<th>Job Description</th>
<th>ASSMT Rating (equivalent)</th>
<th>Number of Employees</th>
<th>Average Number of Hours Worked Per Week</th>
<th>Basic Monthly Salary</th>
<th>Replies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Party Chief II - capable of project control and management</td>
<td>Senior Technologist</td>
<td>2.54</td>
<td>44.0</td>
<td>3119</td>
<td>48</td>
</tr>
<tr>
<td>Party Chief I - good academic background or extensive experience</td>
<td>Technologist minimal supervision</td>
<td>2.59</td>
<td>44.0</td>
<td>2553</td>
<td>48</td>
</tr>
<tr>
<td>Survey Assistant - experienced survey aide working under full supervision</td>
<td>Technician II</td>
<td>3.79</td>
<td>43.0</td>
<td>1758</td>
<td>55</td>
</tr>
<tr>
<td>Stenographer - typist &amp; receptionist and related duties</td>
<td>1.3</td>
<td>36.73</td>
<td>1808</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>Computer Operator - capable of computing a complete survey plan and operating a CAD station</td>
<td>Technologist</td>
<td>2.33</td>
<td>40.0</td>
<td>2795</td>
<td>51</td>
</tr>
</tbody>
</table>
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Usher Canada Limited

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