The Driving Force

(repeat)
Ensight
(repeat)

20 **History:** The Way We Were: Sauder Explored South One Stream at a Time

22 **Salary Survey**

30 **Alliance Geomatics Canada**
A Proposal for a New National Geomatics Organization

32 **Equipment Essentials**
The Foundation of a Survey

34 **Tips and Tricks**
Customizing MicroSurvey Cadpro 3.1

36 **Legal Notes**
Power on the Property Line

---

### Contents

- **History:** The Way We Were: Sauder Explored South One Stream at a Time
- **Salary Survey**
- **Alliance Geomatics Canada**
  A Proposal for a New National Geomatics Organization
- **Equipment Essentials**
The Foundation of a Survey
- **Tips and Tricks**
  Customizing MicroSurvey Cadpro 3.1
- **Legal Notes**
  Power on the Property Line

---

**Editor**
Brian E. Munday
munday@alsa.ab.ca

**Advertising & Production**
Sharon D. Stecyk
stecyk@alsa.ab.ca

Deadline dates for submission of material to ensure printing are as follows: February 15th, June 1st, September 1st, and December 1st. Opinions expressed by the editor or individual writers are not necessarily endorsed by the Council of the Alberta Land Surveyors' Association. Articles may be reprinted with due credit given to the source and with permission of individual writers or where no writer is indicated, with the permission of the Editor.

**ALS News** is published by the Alberta Land Surveyors' Association for circulation to the Association Membership. Address all correspondence to:

Alberta Land Surveyors' Association
2501, 10004 - 104 Avenue
Edmonton, Alberta T5J 0K1
Tel: 780/429-8805 or 1-800-665-2572
Fax: 780/429-3374    admin@alsa.ab.ca
www.alsa.ab.ca

---


5 **President’s Message**

7 **Councillor’s Forum**

9 **Editor’s Notes**

10 **Letters to the Editor**

12 **Association Notes**
New Members
Changes to the Register
Cast Your Ballot

25 **SPR Director’s Message**

27 **From the Registrar**

29 **PDC Corner**

37 **ASSMT Notes**

39 **U of C News**
Spectra Precision
(new)
We have arrived at a time in my term where I need to report to our members, where I’ve been, what I’ve seen, and what I’ve learned.

First let me say how truly grateful I am for the opportunity of serving you once more as your President.

During my travels across this vast country I have been privileged to attend land surveying association annual general meetings in Saskatchewan, Newfoundland, Manitoba, Nova Scotia, British Columbia and Ontario.

These days when everything we do is high tech, digital and fast tracked, we are almost compelled to provide abbreviated answers like “I’ve been around, seen a lot, and learned to listen.” I hope you can bear with me for the longer version of my observations.

The need to visit and communicate with other professional associations should not be underestimated. We need to share and explore with our sister associations common areas of concern. For example, one of the sister associations common areas of need to share and explore with our professional associations is not to be underestimated. We need to communicate with other professional associations.

The need to visit and communicate with other professional associations should not be underestimated. We need to share and explore with our sister associations common areas of concern.

The Association of Ontario Land Surveyors (ALS) has had the extended profession for some time now. At their meeting, I learned what they are doing to introduce what they call the “Geographic Information Manager” to their Association. They are also still struggling with what to do to bring new members into the profession with the demise of the Erindale program.

As you can see, our sister associations are taking steps to ensure their survival with mixed results. We are not alone here in Alberta. While the Association enjoys membership growth and many active volunteers and the membership has benefited from a robust economy over the last couple of years, we cannot ignore the opportunities and threats which lay before us. While many of us have focused on the Government’s introduction of Bill 5, the Surveys Amendment Act, we would be wise to be aware of other proposed legislation.

...we cannot ignore the opportunities and threats which lay before us.

The Alberta Land Surveyors’ Association wants to retain its role of being a leader and pro-active in new and exciting initiatives. We do not want to be in the position again of reacting to what somebody else has done or proposed. Perhaps, we should consider devoting some time now to our position within the geomatics community.

Whether we are prepared to accept it or not, we must be able to deal with issues which affect our profession. And, more often than not nowadays, those issues are geomatics related. The Coordinate Based Cadastre Report that Council just received is not strictly a cadastral issue. Digital plan submission, an issue that has consumed much of Council’s attention, is not a pure cadastral issue either.

What is clear to me however, is that we must continue to share our ideas and concerns with our sister associations and that we must take advantage of the expertise and excellence in the Department of Geomatics Engineering at the University of Calgary.

These are big issues—and they are important issues. Your Council will be devoting two full days in March to addressing these issues as part of a strategic planning meeting. I am sure that your next President will be filling you in about the results of that meeting.

It has been my pleasure serving as your President and I know I leave the Association in good hands.
MicroSurvey

(new)
As the end of my term as your Vice President nears, I would like to reflect on what has occurred over the last year or so. Your Executive Committee and Council have been very busy with regular monthly meetings with long and time consuming agendas and other meetings.

I feel that the most important and time consuming issue that we have had to face this past year has been that of “Digital Plan Submissions.” Your Executive, Council and Digital Plan Submissions Working Group have all had numerous meetings with Alberta Registries to discuss the process and to address any issues that have arisen.

It may be appropriate, at this time, to review what has transpired on this issue and how we have arrived at where we are today. At this time last year, the Association was asked to participate on Alberta Registries’ Digital Plan Submissions Committee. Bruce Drake, Daniel Lachance, Doug Lunty, and Craig McBride were all members of this committee at one time or another. In the beginning, this group primarily looked at technical issues. One of the first issues was the layering structure and the ALSA representatives on the committee were successful in reducing the number of layers to a manageable size. As the ALSA representatives reported back to Council, it became apparent that a number of broader business issues had to be resolved.

At about the same time, Registries and Spatial Data Warehouse made presentations to the membership in Calgary, Edmonton, Grande Prairie, and Lethbridge. Also, the first version of the Policy and Procedures Manual came about and was circulated to the membership. The membership responded to this Policy and Procedures Manual with a flurry of letters raising a number of concerns and questions. In the fall, Council reviewed your concerns and questions (a summary of which appeared in the last issue of ALS News) and identified several of its own concerns and forwarded them in a letter to Environmental Protection, Registries, and Spatial Data Warehouse. Alberta Registries Executive Director Rae Runge responded on behalf of the three organizations and his letter also appeared in the last issue of ALS News. In addition to the formal correspondence that had been going back and forth, many phone calls and face to face meetings also took place during this time. Council felt that progress was being made on some issues while it seemed like we couldn’t make any headway on others. Upon receipt of Mr. Runge’s letter, it was decided to set aside some concerns for the sake of the overall benefit of the initiative. While many of us were dismayed by amendments going into the Surveys Act, we realized that only the Surveys Act provides for “cadstral mapping.” Regardless, we felt it was more important to focus on issues which will have an impact on the membership and its clients. These issues include grandfathering and access to data.

At our January Council Meeting, we decided there was a need to retain a negotiator to lobby the government and explain the Association’s concerns in this time of transition. As you all know by now, retired Director of Surveys Dick Bassil was retained by the Association. Mr. Bassil has met with many of the members and he has listened to your concerns and has provided a wealth of experience. Mr. Bassil has also had several meetings with Registries and SDW. Mr. Bassil has provided weekly reports back to Council and by all indications his meetings have given each side a better understanding of its position and several avenues have been explored in search of a better system for all concerned.

Unfortunately, it appears that Mr. Bassil has run into a road block. Although it appears that every side is interested in making the process better, there now appears to be a financial crisis which may very well threaten the entire initiative. As I write this Councillor’s Forum, I am reviewing a letter which Council is sending to the Minister of Environmental Protection and Minister of Municipal Affairs encouraging them to provide funding through this transitional period. These transitional issues might include a roll back of the date on which the digital file becomes the plan of record from June 1 to December 1 and training sessions. At this time, these are only ideas and are wholly dependant on funding being made available.

It is my personal view that digital plan submissions are a good idea. It is part of the future direction of moving our society into the 21st Century. Your Council has raised a number of concerns and we have made concessions for the betterment of this initiative and we hope that the ministers will also be supportive.

I can see this issue still being a “hot potato” which your incoming Council and other committees are going to be involved with to continue the process and, hopefully, be able to achieve some success in resolving our concerns.
Leica
(new)
...the strength of the Association is built on its own great groups. Without the dedication of all of its committee members, the Association would not be able to do what it does.

I list these fifteen items for two reasons. One, to point out that great groups do not happen by accident—they require a great deal of nurturing and, in many cases, coercion. It is also important to point out that great groups achieve things which the rest of the world had previously thought was impossible. No one thought that Walt Disney (in reality a group of many innovative animators and not just one person) could produce Snow White and the Seven Dwarfs or that a team of highly skilled and highly opinionated people could split the atom and develop the bomb. We all remember the names of Disney and Oppenheimer, but we often forget that it was a great group that did the work to deliver the project to make them household names.

My second reason for listing the fifteen secrets of creative collaboration is to remind the membership that the strength of the Association is built on its own great groups. Without the dedication of all of its committee members, the Association would not be able to do what it does. As we come to the end of another year, I wish to recognize everyone who volunteered for a committee and took part in the Association’s activities. Soon, we will be asking for more volunteers for next year’s committees. Please take a few moments to volunteer for one of the Association’s committees. This is your chance to be part of a great group.

The premise for the book is that there are groups and then there are GREAT GROUPS. Furthermore, they go on to say that great leaders do not necessarily create great groups and, conversely, great groups do not necessarily make great leaders. In the end, the American myth of the triumphant individual is over whether it be Paul Revere or Michael Jordan.

Organizing Genius is a case study of six great groups. The case studies are taken from the entertainment world (Walt Disney) to education (Black Mountain) to politics (the 1992 Clinton campaign) to science (the Manhattan Project). This is a disparate group of companies and organizations and yet they all share the characteristic of being a great group.

So as the subtitle of the book asks, what are the secrets of creative collaboration? As I read through the book, the author’s opinion became clear and he summarizes them in fifteen take home lessons in the last chapter of the book. These lessons are:

1. Greatness starts with superb people.
2. Great groups and great leaders create each other.
3. Every great group has a strong leader.
4. The leaders of great groups love talent and know where to find it.
5. Great groups are full of talented people who can work together.
6. Great groups think they are on a mission from God.
7. Every great group is an island—but an island with a bridge to the mainland.
8. Great groups see themselves as winning underdogs.
9. Great groups always have an enemy.
10. People in great groups have blinders on.
11. Great groups are optimistic not realistic.
12. In great groups, the right person has the right job.
13. The leaders of great groups give them what they need and free them from the rest.
14. Great groups ship.
15. Great work is its own reward.

Last Thanksgiving, I was sent on a mission to pick up some family members from the Edmonton International Airport. As I had arrived before their flight landed, I took the opportunity to peruse the bookstore’s offerings. I thought I might be able to find a new mystery novel or perhaps a good biography. Instead, my eye wandered over to the business section.

I am usually not that impressed with the books on business. I find that many of them are little more than a flavour of the month of the latest management fad. Other books fall into the “get rich quick” scheme. I did notice one book that stood out from the crowd. It is called Organizing Genius: The Secrets of Creative Collaboration by Warren Bennis and Patricia Ward Biederman. When I was at university, I read one of Bennis’ other books, On Becoming a Leader. I found that book to be one of the best of its kind on the subject. On Becoming a Leader did not focus on an individual’s charisma or one type of management style. It was, rather, a well researched publication that focused on a number of case studies and a number of different types of individuals. It is still the only book that I have seen that could truly be called a handbook on leadership.

So, when I saw Organizing Genius in the airport bookstore, I could not resist picking it up and taking it home. The premise for the book is that there are groups and then there are GREAT GROUPS. Furthermore, they go on to say that great leaders do not necessarily create great groups and, conversely, great groups do not necessarily make great leaders. In the end, the American myth of the triumphant individual is over whether it be Paul Revere or Michael Jordan.

Organizing Genius is a case study of six great groups. The case studies are taken from the entertainment world (Walt Disney) to education (Black Mountain) to politics (the 1992 Clinton campaign) to science (the Manhattan Project). This is a disparate group of companies and organizations and yet they all share the characteristic of being a great group.

I list these fifteen items for two reasons. One, to point out that great groups do not happen by accident—they require a great deal of nurturing and, in many cases, coercion. It is also important to point out that great groups achieve things which the rest of the world had previously thought was impossible. No one thought that Walt Disney (in reality a group of many innovative animators and not just one person) could produce Snow White and the Seven Dwarfs or that a team of highly skilled and highly opinionated people could split the atom and develop the bomb. We all remember the names of Disney and Oppenheimer, but we often forget that it was a great group that did the work to deliver the project to make them household names.

My second reason for listing the fifteen secrets of creative collaboration is to remind the membership that the strength of the Association is built on its own great groups. Without the dedication of all of its committee members, the Association would not be able to do what it does. As we come to the end of another year, I wish to recognize everyone who volunteered for a committee and took part in the Association’s activities. Soon, we will be asking for more volunteers for next year’s committees. Please take a few moments to volunteer for one of the Association’s committees. This is your chance to be part of a great group.
Altered RPR

The following is a copy of a letter that Bill Pang, A.L.S. sent to a local solicitor. He wanted the membership to be aware of the problem. It is self-explanatory.

On December 9, 1998 we received a call from the City of Calgary advising that they had received a Real Property Report from your office that may have been altered without our knowledge and/or authorization and asking us to verify its authenticity. Our examination of the Real Property Report provided to the City shows that it has been altered from the copyrighted Real Property Report issued by this office on April 23, 1997. The altered RPR provided to the City of Calgary indicates that the location of the greenhouse has been changed and that the side yard to the lane has been changed from 0.15m to 0.61m.

Although it purports to be my survey.

This situation points out the danger of not using the original Real Property Report which, as required by the Alberta Land Surveyors’ Association Manual of Standard Practice (Section 7.9), must bear “a permit stamp, and original signature, both in a different color than the printed document.”

I view this incident very seriously as it affects my professional reputation and I would ask for your assistance in providing me with any information you may have with respect to the alterations made to the original Real Property Report.

I am enclosing for your information, the Alberta Land Surveyors’ Association brochure, “The Real Property Report.” Thank you for your cooperation; I look forward to your response.

WILLIAM PANG, A.L.S.

Part D, Section 4.3.3

Manual of Standard Practice

First, I plead guilty to sleeping through this particular issue and not really thinking of the ramifications that result from the practical application of this change and apologize for my neglect.

I feel that we, as an Association, have thrown out a method of survey that was accepted for decades, worked well, was cost conscious and responsible for the paying client and protected our survey fabric.

I am obviously referring to the five meter road widening survey. To not be allowed to turn the theoretical angle and put in what amounts to a reference post is a silly and very short sighted decision. I think this decision may have a similar backlash to the one we have endured for years over our RPR decision a few years ago. I have had some clients indicating that they consider this extra work we legislated ourselves, as self-serving and totally unnecessary. Quite frankly, I find our decision difficult to defend and I have some sympathy for their desire to seek alternatives.

Speaking with other surveyors, I find I am not alone with my concerns. Are we concerned about contravening the “Surveys Act?” I think it can be interpreted that our traditional method of posting did not contravene the Act. If we assume that any pins planted are simply reference pins, then the Surveys Act is not applicable. The survey is to not only create a reproducible method of defining legal boundaries, but to protect and enhance the existing survey fabric. The new post is simply a reference post showing how to reestablish a corner in order to proceed with a subsequent legal survey. The status of the new post under either method of posting does not change.

Are we trying to protect the survey fabric? If so, our decision will have the opposite effect.

Was this strictly a Machiavellian business decision? If so, it won’t work. Municipalities are very cost conscious and the cost is significantly more when these ties involve bush or remote ties and they will balk at the increased cost. Municipalities are already discussing registering road plans by description and although Land Titles has so far said no, I have no doubt they will continue the pres-
sure. A second and more likely decision by municipalities is the option of just signing back slope agreements with land owners and not surveying the new areas. Either way, there will be less survey work.

Are we trying to protect the survey fabric? If so, our decision will have the opposite effect. If either of the above alternatives are used by the municipalities, they will be building roads without legal surveys and destroying all the survey evidence. If this happens, we will have massive destruction of primary evidence. This would be a tragedy and would be a major contravention of our roles as Alberta Land Surveyors to promote and protect this fabric for future generations of surveyors and the public. We will not have protected the survey fabric nor enhanced it, but contributed to a significant amount of its destruction.

At any rate, our past surveyors, no doubt, debated this issue years ago. They came up with the great compromise of running sections lines if our widening posts were over thirty metres away and if less than that, planting a post that can easily be used to re-establish the section corner if it is necessary. It worked—why did we try to fix it?

I would ask that Council put this issue to the Practice Review Board for review and eventually a re-vote at our 1999 convention.

BRUCE A. BEAIRSTO, A.L.S.

This article was written by the Alberta Land Surveyors’ Association and provided to newspapers across the province.

Dream house turns into house of horrors

Tom and Elizabeth had just finished landscaping their front yard and now they were worried they were going to have to rip it up and start over.

Four years ago, the young couple had purchased their first home from Elizabeth’s mother and they decided to spend some money fixing it up.

This summer they completely re-landscaped their front yard—new lawn, new shrubs and a beautiful retaining wall where the fence used to be. In all, they spent close to $11,000. They never thought of spending just a few hundred dollars to have a surveyor prepare a Real Property Report to show them exactly where their property boundary was located. They just assumed the boundary was the fence.

They just assumed the boundary was the fence. But, their new neighbour didn’t. He got a Real Property Report as part of the real estate transaction.

But, their new neighbour didn’t. He got a Real Property Report as part of the real estate transaction. He found out the new retaining wall that Tom and Elizabeth liked so much was on his property—not theirs.

Tom and Elizabeth don’t know if they are going to have to tear down the wall or if they can negotiate an agreement with their new neighbour, but they do know that avoiding a survey didn’t save money—it cost them dearly in worry, time and expense.

It’s a continual tale of buildings built over gas lines, fences or sheds on someone else’s property, houses that do not meet municipal location requirements and houses even on the wrong property.

Dealing with these situations and others is all part of the day of the Alberta Land Surveyor (ALS) as he prepares a Real Property Report for a real estate transaction.

Although buyers fall in love with a house and property, they want to know that their dream home isn’t going to become a “house of horrors” after they take possession. A Real Property Report is the only way of finding out for sure.

The Alberta Land Surveyor conducts a thorough investigation of the site and measures all the buildings or structures located on the property. He then reviews the title and compares all measurement information to the legal boundaries. The final form the Alberta Land Surveyor produces is a diagram of the property showing locations of improvements and an opinion outlining any problems that are identified.

This diagram (Real Property Report) can then be taken to the municipality to determine whether the improvements conform to any restrictions of the land-use bylaws. If everything is okay, the buyers can proceed knowing that they will not encounter boundary or bylaw problems down the road.

But, if problems are identified, they can be fixed and should be fixed prior to conclusion of the sale. Moving a garage or even a retaining wall because it was built over a utility line, could be a very expensive proposition—certainly not something a new homeowner wants to deal with.

Only an Alberta Land Surveyor is legally entitled to determine property boundaries.

Only an Alberta Land Surveyor is legally entitled to determine property boundaries. Each ALS guarantees the accuracy of the RPR and each carries professional liability insurance as an added level of protection for the consumer.

An Alberta Land Surveyor can be found by checking the listings in the Yellow Pages.

(This article is prepared and distributed as a public service by the Alberta Land Surveyors’ Association. The story of Tom and Elizabeth is true, although the names and circumstances have been altered slightly to protect privacy.)
New Members

#642 QUINLAN, Jerry
Jerry Quinlan was born on July 19, 1963 in St. John’s Newfoundland. He completed grade 11 in 1981 and went on to attend the Cabot Institute of Newfoundland. He graduated from UNB in 1991 with a diploma under the cadastral option.

Articles were served under B.E. Winton, A.L.S. The topic of the technical report submitted as part of the qualifying examination was “The Survey of a Pipeline in Unsurveyed Crown Land (Green Areas) and Process of Obtaining a Pipeline Agreement (PLA).”

He received his commission as an A.L.S. on December 3, 1998. Jerry also holds a commission as a Newfoundland Land Surveyor.

Surveying experience includes employment with Jerrett & Associates performing legal surveys in Newfoundland from 1987 to 1994; McElhanney Land Surveys (Alta.) Ltd. in Fort St. John and Grande Prairie from 1994 to the present.

Hobbies include hockey, racquet sports, softball, and skiing. Jerry is married to Ruby and they reside in Grande Prairie.

#643 LOVSE, John W.
Bill Lovse was born in Edmonton, Alberta on June 11, 1952. He graduated from Strathcona Composite High School in 1970 and went on to receive a B.Sc. in Surveying Engineering from the University of Alberta in 1976.

Articles were served under B.E. Winton, A.L.S. The topic of the technical report submitted as part of the qualifying examination was “The Surveyor and Natural Boundaries in Alberta.”

Bill received his commission as an Alberta Land Surveyor on December 18, 1998. He is a member of the ALSA Professional Development Committee (1998/99) and a member of APEGGA.

Surveying experience includes construction, residential, industrial alignment, and oilfield.

Bill enjoys hockey, skiing and hiking and resides in Calgary with his wife, Kathy and their two children Krista and Lisa.

#644 HAUB, Duane M.
Duane was born in Athabasca, Alberta on March 1, 1963. He graduated from Edwin Parr Composite High School in 1981 and went on to receive a diploma in Survey Technology from NAIT in 1986 and a B.Sc. in Surveying Engineering from the University of Calgary in 1993.

Articles were served under I.R. Emmerson, A.L.S., C.L.S. The topic of the technical report submitted as part of the qualifying examination was “A GPS Project: The Survey of a Pipeline Right-of-Way.”

Duane received his commission as an Alberta Land Surveyor on December 21, 1998 and is a member of the ALSA Professional Development Committee (1998/99).

Surveying experience includes oilfield, subdivision, Canada lands, engineering, construction, and mapping.

#645 DAVIES, Sandra M.
Sandra was born on February 27, 1969 in Edmonton, Alberta. She graduated from the Western Canada High School in 1986 and went on to receive a B.Sc. in Surveying Engineering from the University of Calgary in 1991.

Articles were served under Alberta Land Surveyors L.R. Olson, D.N. Tomkinson and W.W. Fawcett. The topic of the technical report submitted as part of the qualifying examination was “An Evaluation of Three GPS Surveys.”


Surveying experience includes pipeline right-of-ways, wells sites, subdivision, RPRs, site plans some GPS and drafting using AutCad.

Swimming, skiing, and cycling are a few other interests. Sandra and her husband Trevor reside at Sylvan Lake with their two children, Matthew and Kyle.
#646
FREDERICK, Les J.

Les Frederick was born on September 4, 1956 in Toronto, Ontario. He graduated from Lawrence Park Collegiate of Toronto in 1976 and went on to receive a B.Sc. in Surveying in 1981 from the University of Toronto.

Articles were served under J.D. Wallace, A.L.S. The topic of the technical report submitted as part of the qualifying examination was “The Mechanical Survey: The Survey of a Pulp Machine.” Les serves on the ALSA Convention and Social and Historical and Biographical Committees for 1998/99.

Commission as an Alberta Land Surveyor was received on January 14, 1999.

Les worked in construction surveys for Usher Canada Limited from 1981 to 1986, and in oilfield surveying for Can-Am Surveys Ltd. from 1994 to the present.


#647
LANTZ, Donald

Donald Lantz was born in Wetaskiwin, Alberta on May 1, 1967. He graduated from Frank Maddock High School of Drayton Vally in 1985 and went on to receive a diploma in Surveying Technology from NAIT in 1987, and a B.Sc. in Surveying Engineering from the University of Calgary in 1992.

Articles were served under Alberta Land Surveyors R.O. Hall, B. Jess, and J.D. Stephens. The topic of the technical report submitted as part of the qualifying examination was “Kemess Mines Transmission Line Project.”

Donald received his commission as an Alberta Land Surveyor on January 22, 1999.

After graduating from the University of Calgary, he worked for Lamerton & Associates in Whitehorse, YT for two years. From 1994 to the present, he has been employed by The Focus Corporation Ltd. and resides in Grande Prairie.

Swimming, running, and hiking are a few extra activities that Donald enjoys.

#648
CARD, Steven J.

Steven Card was born on March 26, 1959 in Mountain Grove, Ontario. He graduated from Sharbot Lake High in 1977 and went on to receive a B.Sc. in 1981 from the University of Toronto.

Articles were served under B.J. McKenna, A.L.S. The topic of the technical report submitted as part of the qualifying examination was “An Investigation into Survey Procedures and Products for a Typical Waterflood Project.”

Commission as an Alberta Land Surveyor was received on February 18, 1999. Steven also holds commissions as an Ontario Land Surveyor and a Canada Lands Surveyor.

Surveying experience includes working for various private firms doing road widenings, wellsites, etc. He is currently employed with the Federal Department, Natural Resources Canada, performing and administering surveys on Canada Lands.


Steven, his wife Sandra, and their two children, Brittany and Kaitlin, reside in Okotoks, Alberta.

#649
LIPINSKI, H. Derrick

Derrick Lipinski was born on July 1, 1963 in Edmonton, Alberta. He graduated from M.E. Lazerte Composite High in 1981, went on to receive a Survey Technology Diploma from NAIT, and attended the University of Alberta as a special student from 1990 to 1993.

Articles were served under P.J. Sullivan, A.L.S., and R.J. McGaffin, A.L.S. The topic of the technical report submitted as part of the qualifying examination was “Area Calculations for Oil and Gas Royalties on Indian Reserves in Alberta.”

Commission as an Alberta Land Surveyor was received on February 19, 1999. Derrick is also a Canada Lands Surveyor and has been a member of the Legislation Committee since 1997.

Surveying experience includes working for various private firms doing road widenings, wellsites, etc. He is currently employed with the Federal Department, Natural Resources Canada, performing and administering surveys on Canada Lands.

Derrick is married to Linda. They reside in Edmonton, Alberta with their two children, Zachary and Brynmor.

#650
ALCOCK, Christopher

Christopher John Alcock was born on March 2, 1958 in England. He entered Canada in 1962, graduated from Grade 13 at Burlington Central High, and went on to receive a B.Sc. from the University of Toronto.
Articles were served under Alberta Land Surveyors G.S. Whaley, B.A. Murray, and L.A. Cridland. The topic of the technical report submitted as part of the qualifying examination was “Establishing A Surveying Business.”

Commission as an Alberta Land Surveyor was received on March 3, 1999. Chris is also a Canada Lands Surveyor, participates in the Fort McMurray Search & Rescue Team, and is co-owner and secretary of Hammond Mediation and Consulting Group Inc.

Chris is experienced in municipal, energy sector, and GPS surveying. He is currently employed with Cridland & Associates Ltd. and resides in Fort McMurray with his wife Charmaine Hammond.

They Really Missed the Boat

POTSDAM, Germany (AP) — A German couple out for a Christmas drive near Berlin ended up in a river — apparently because their luxury car’s computer forgot to mention they had to wait for a ferry.

The 57-year old driver and his passenger were not injured, police said yesterday.

Several companies sell computer navigators, some of which are attached to dashboards and serve as electronic road maps.

The German couple was out driving Friday night when they came to a ferry crossing at the Havel River in Caputh, 10km from Berlin.

That information however, was never stored in the satellite-steered navigation system they were using, police said. The driver kept going straight in the dark, expecting a bridge, and ended up in the water.

River traffic was stopped for two hours while the car was fished out about four metres from the riverbank.

“You can’t always blindly rely on technology,” a coast guard police officer said.

Corrections/Changes to the Register

Every year after publication of the Annual Register, a raft of changes/corrections are submitted to the Association office. Please continue to keep the office informed of any changes so that our membership database can be kept current.

A.C.S. Geomatics has relocated to 15002 - 76 Avenue, Edmonton T5R 2Z8; Tel: (780) 487-1263.

Jacques Dupuis, A.L.S. is practicing out of the The Focus Corporation branch office in Calgary effective December 1, 1998.

Lorraine Hortness, A.L.S. has moved to 38 - 52331 Range Road 225, Sherwood Park, T8C 1C8 Tel: (780) 467-8592 E-mail: hortness@yahoo.com (effective March 1, 1999).

Loeppky & Associates Surveyors Inc. are now operating as Stantec Geomatics Ltd. and will relocate to #500, 1122 - 4th Street S.W., Calgary T2R 1M1 Tel: (403) 716-8000 Fax: (403) 716-8059 geomatics.calgary@stantec.com.

Bob Michie, A.L.S. will be employed by Stantec Geomatics on an “as required” basis during 1999.

Darwin Moss, A.L.S. is employed by Can-am Surveys Ltd. in their Edmonton office effective December 1, 1998.

Bill Mintz, A.L.S. is no longer with Stantec Geomatics Ltd. He can be reached at 11217 - 127 Street, Edmonton T5M 0T7 Tel: (780) 482-2356.

Northland Surveys has relocated to #100, 18103 - 105 Avenue, Edmonton T5S 2L5 effective January 1, 1999. Telephone and Fax numbers remain the same.

New Associate/Affiliate Members

Perrin, Don ....................... AS019
Johnson, Ken ...................... AS020

Correction

It was incorrectly reported that Geodesic Surveys Ltd. has merged with All West Surveys Ltd. In fact, Geodesic Surveys ceased operations and the personnel have joined All West Surveys Ltd. in Calgary.

Correction to Room Rates at JPL for AGM

Please note that the room rates on the Fax Reservation for Jasper Park Lodge are in error. Fortunately, the actual rates are less in all but the Mountain View Suites. The correct rates are as follows:

- Canadian Pacific .................. $119.00
- Chateau Deluxe .................. $129.00
- Heritage Premiere ............... $149.00
- Mountain View Suite ........... $179.00
- Lakeview Suite ................. $199.00

Also, the quoted service charge rate of $7 is actually $8/person/day.

Our sincere apologies for any inconvenience you may have experienced in making reservations at Jasper Park Lodge.

Notice

On September 15, 1998, the Director of Surveys Branch completed the Wellsite Traverse Scanning Project and made the data available on compact disks. As noted at that time, the distribution of single wellsite traverse plans will be discontinued as of April 1, 1999. For more information this and options for viewing and printing/plotting the wellsite traverse plan images, please visit the Director of Surveys Branch website at www.gov.ab.ca/env/land/dos/serv02.html.

REPRINTED FROM THE SUNDAY SUN
DECEMBER 17, 1998
List of Candidates

ALSA 90th Annual General Meeting
Jasper Park Lodge, April 24, 1999, 9:00 a.m.

For President:

D.R. (Don) Jaques A.L.S., C.L.S., S.L.S. (Ret.)
- Born in Yorkton, Saskatchewan.
- Attended Yorkton Collegiate Institute, graduating in 1955.
- Attended University of Saskatchewan.
- Served two terms on the ALSA Council; 1978-80 and 1985-87, and as Vice President in 1998-99.
- Served on ALSA committees such as Public Relations, Legislation, and as Chairman of the Ad Hoc Committee for Real Property Reports, and Chairman of the Public Relations Committee.
- Member of CIG and ACLS.
- Presently employed with UMA Geomatics, A Division of UMA Engineering Ltd., in Calgary.
- Hobbies include fly fishing and tying his own flies.
- Married to Linda; four children.

For Vice President:

L.M. (Larry) Pals, A.L.S.
- Born in Castor, Alberta in 1951.
- Graduated from Theresaetta High in 1969.
- Began survey career with Alberta Transportation (1971-74).
- Articled to L.R. Newby, A.L.S.
- Received A.L.S. commission in July 1976.
- President of Pals Surveys and Associates Ltd. (1983 to present).
- Served on ALSA Standards Committee (1990-91).
- Served as Northern Regional Chairman (1992-93).
- Served as Convention Committee Chairman (1979 and 1983).
- President of Knights of Columbus Hockey (1997-1999).
- Member of RPR Task Force since 1997.
- Member of CIG, UDI, EHBA.
- Married to Judy; three children.

G.K. (Ken) Allred, A.L.S., C.L.S.
- Graduated from SAIT in 1961 with Gold Executive Award.
- Articled to Alberta Land Surveyors, Jerry Iwanusiw, Ilmar Pals, and Hugh Impy.
- Received A.L.S. commission in 1965; C.L.S. commission in 1968.
- Served on ALSA Council from 1972 to 1976.
- Served as ALSA Executive Director for 1977 to 1991.
- Member of most ALSA committees at one time or another.
- Director and Secretary Treasurer for the J.H. Holloway Scholarship Foundation from 1977 - 1991.
- Served on CCLS from 1977 until 1986, as Secretary Treasurer, Vice President, and President.
- Adjunct Professor, University of Alberta from 1984 to 1992.
- Canadian delegate to International Federation of Surveyors (FIG) Commission 1 - Professional Practice, 1980 to present; Chair, 1994 to 1998.
- Member, Canadian Institute of Geomatics.
- Member, Alberta Arbitration and Mediation Society.
- Alderman, City of St. Alberta for 15 years.
- Chair, Edmonton Metropolitan Regional Planning Commission from 1993 to 1995.
- Member, Metis Settlements Appeal Tribunal from 1994 to 1998.
- Practice includes cadastral research, forensic investigations, professional seminars, and adjudication.
- Prior employment with all three levels of government, private practice, resource exploration, and association management.
- Attended every ALSA Annual Meeting since 1965.

www.alsa.ab.ca
For Councillor:

F. (Fred) Hingley, A.L.S.
- Born in Truro, Nova Scotia.
- Graduated Grade 12, Central Colchester High.
- Moved to Calgary, Alberta in 1969.
- Moved to Edmonton, Alberta in 1971 and worked for various oilfield survey firms.
- Articles served under L.W. Breton, A.L.S.
- Presently partner with Universal Surveys Inc.
- Serving on the Ad Hoc Oil and Gas Committee.
- Married to Shirley and presently residing in Strathcona County.

P.M. (Mike) Michaud, A.L.S.
- Born in Loon Lake, Saskatchewan.
- Received honours diploma in Surveying from NAIT in 1978.
- Attended University of Alberta in 1981.
- Received A.L.S. commission in 1984.
- Commissioned as a C.L.S. in 1986.
- Education Committee member (1988-91).
- Northern Regional chairperson (1991-92).
- Council member (1994-96).
- Member of Standards Committee (1996-present).
- Director of Surveys/Boundary Commissioner (1996-present).

M. (Mark) Prevost
A.L.S., P.Eng., C.L.S.
- Born in Calgary, Alberta in 1960.
- Graduated from the University of Calgary Surveying Engineering Program in 1985.
- Articled to Alberta Land Surveyors J.E. Rasmuson and Irwin Maltais.
- Received commission as an Alberta Land Surveyor in 1987.
- Received P.Eng. designation in 1987.
- Received C.L.S. commission in 1993.
- Employed with JTR Survey Services from 1978 to 1985, Maltais Associates Surveyors Ltd. from 1985 to present (Branch Manager, High Level office from 1987 to 1995, and Branch Manager, Calgary Office from 1995 to present).
- Served as Councillor for the Town of High Level for two terms, including time as Deputy Mayor.
- Served on several boards and committees in roles from member to chairman.
- Married to Shirley.

J. (John) Stephens, A.L.S.
- John graduated from Ryerson Polytechnical Institute in 1978 with a degree in Geodetic Science, and obtained his Alberta Land Surveyor’s commission in 1987.
- He has been a managing partner of Focus Surveys since 1993, and is currently the Operations Manager of the Edmonton office.
- He served on the Convention and Social Committee for six years, and was Chairman of the 1995 Annual General Meeting and Convention.
- John resides in St. Albert with his wife Debbie-Ann.

ALSA 90th Annual General Meeting and Convention

**Agenda**

**Thursday, April 22, 1999**
- 8:00 a.m. ...................... Seminar
  Application of Modern Technology to Cadastral Surveying
- 11:30 a.m. ............... Awards Lunch
- 2:00 p.m. .............. Writing Workshop
- 5:00 p.m. ....... Icebreaker Reception

**Friday, April 23, 1999**
- 8:30 a.m. .......... Business Meeting
- 12:00 noon . . . Beer and Bun Lunch
- 1:30 p.m. .......... Business Meeting
- 5:00 p.m. .............. Theme Night
  Canadiana Survey Challenge

**Saturday, April 24, 1999**
- 9:00 a.m. .......... Business Meeting
- 12:00 noon ..... Member’s Lunch
- 1:30 p.m. .......... Business Meeting
- 6:00 p.m. .......... President’s Ball
John William (Jack) Hill
May 10, 1918 — February 16, 1999

B orn May 10, 1918 in Kirkby Lonsdale, England, Jack died at the Saanich Peninsula Hospital in North Saanich, B.C. on February 16, 1999. He was predeceased by wives Sonja (1977), Peggy (1995), and Emily (1998); survived by children Christina, Duncan, Celina (Charles) and Alexander (Edith); sisters Celina and Jane; and nieces and nephews.

Following completion of matriculation and a Higher School Certificate in England, Jack passed the Open Civil Service Examinations and then served as a Mapping Assistant in His Majesty’s Land Registry on a project to convert the established conveyancing and deed registry system to the Torrens System.

He served in the British Army from 1939 to 1946 in Europe and North Africa. His military service included surveys and computations to transform geographical values to rectangular coordinates for various grid systems in Algeria, Tunisia, Egypt, Libya, Sicily, Italy, Yugoslavia, and Germany, using mechanical calculators.

Following the war, he returned to the Land Registry for two years, then worked as a surveyor in Iran for the Anglo Iranian Oil Company.

He immigrated to Canada in 1950 with his wife and two small children and found employment as the computations director in the office of the Director of Surveys in Edmonton. He articulated with C.W. Lester, D.L.S., A.L.S., and received his commission as an Alberta Land Surveyor on June 13, 1953, and as a Dominion (Canada) Lands Surveyor in March 1954.

After two years in private practice, Jack joined Triad Oil as Chief Surveyor in 1955. As such, he successfully lobbied the Alberta Mines and Minerals Department for funds to provide survey control in the Foothills area and worked with the Director of Surveys and other surveyors to establish the Foothills Survey Control Network. He also initiated action by the Canadian Petroleum Association, the Alberta Land Surveyors’ Association and the Director of Surveys to establish the Wellsite Regulations.

In 1960, he was appointed Canadian Technical Advisor to government officials in British Honduras. Over the next four years, he advised on survey methods, legislation, education and training, and aerial photography as well as serving as emissary for the Governor of British Honduras to the Governor of Jamaica.

...his leadership of Council conceived the vision of a self-sustaining capital based scholarship fund...

On completion of his consultancy in Belize, Jack worked for a year in Ann Arbor, Michigan, on computer applications of subdivision calculations and electronic plotting.

He returned to Edmonton in 1965 and joined Canadian Engineering Surveys until forming his own practice (Control Land Surveys) in 1968. He turned his practice over to his partner in 1983 and retired in 1984 after a long and distinguished career.

Jack made many contributions to the surveying profession through his involvement on committees and the Council of the Alberta Land Surveyors’ Association. He was a member of the Oilfield Committee (1956-1967), the Legislation Committee (1967-1977), the Discipline Committee (1967-1977), the Planning Committee (1967-1977), and Council (1959-60 and 1972-1977). Jack served as Vice President (1974-1975) and President (1975-1976).

Among Jack’s many initiatives was the coordination of activities to establish the J.H. Holloway Scholarship Foundation. During his term as President in 1975, his leadership of Council conceived the vision of a self-sustaining capital based scholarship fund to support the fledging Survey Science program at the University of Alberta. Jack was a founding Director of the J.H. Holloway Scholarship Foundation and its first and only President until he suffered ill health late in 1997. Members and related industries responded to fund raising motivated by Jack through the intervening years that saw prosperity and recession, the introduction of the Surveying Engineering program at the University of Calgary, and NAIT and SAIT transfer students participating in the scholarship program.

He was awarded the Professional Recognition Award in 1988 and was made an Honorary Life Member that year. He was a Fellow and Life Member of the American Congress on Surveying and Mapping, a Fellow of the Royal Geographic Society—London, a member of the Royal Astronomical Society of Canada, and a member of the Canadian Institute of Geomatics.
IHS Energy Group
(new)
The J.H. Holloway Scholarship Foundation was formed on November 26, 1975 by J.W. Hill, R.F. Baker, and J. Deyholos. The Foundation was formed to provide scholarships to NAIT and SAIT survey students and the newly formed survey engineering program at the University of Calgary.

Today, John Deyholos is still on the Board of Directors and serves as President. Other directors include Alex Hittel, Vice President; Brian Munday, Secretary Treasurer; Dick Bassil, Jerry Rasmuson, and Jack Hagen. Jack Hill served as President and Past President until, for health reasons, he was no longer able to partake in the meetings.

For legal reasons, the J.H. Holloway Scholarship Foundation is a separate entity with its own bylaws and accounting. The Foundation meets Revenue Canada’s requirements for a charitable organization and the Foundation is able to issue charitable donation tax receipts.

In the early years, the Foundation received generous support from many firms and practitioners. During the 1980s and early 1990s, interest rates were sufficiently high that the scholarships could be paid from the interest earned. Of course, as interest rates plummeted, it was good news for the overall economy, but the J.H. Holloway Foundation could no longer pay the scholarships from interest earned on GICs. Over the last two years, the Foundation’s directors have been more proactive in soliciting donations. The Foundation also sells raffle tickets at the Annual General Meeting. Last year, Daniel Lachance won the pin finder donated by Hagen Surveys Ltd. and Cansel Survey Equipment Ltd. This year, Rose Country Communications Ltd. has donated a printed worth $325 to be raffled off at the ALSA Annual General Meeting in Jasper.

The Foundation now has a capital fund of approximately $100,000 and invests that money conservatively in GICs and TBills and is in a better position to award the scholarships from the interest earned. However, as we all know, tuition fees are rising rapidly and the Foundation will have to look at increasing the amount of its scholarships in order to keep pace. This means that the Foundation’s fund-raising efforts will carry on.

The J.H. Holloway Scholarship Foundation provides four awards. The table below lists the names of the most recent recipients.

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>University of Calgary:</strong> For a fourth year student in Surveying Engineering based on academic merit and participation in university activities.</td>
<td>Sean R. Harrington ($1,500.00) (1998)</td>
</tr>
<tr>
<td><strong>NAIT/SAIT Transfer:</strong> For a NAIT and/or SAIT graduate in Survey Technology enrolled in the U of C program in Geomatics Engineering. Based on academic merit and awarded subsequent to acceptance in Geomatics Engineering at the U of C.</td>
<td>Kevin T. Grenkie ($750.00) (SAIT - 1998) Lesley Ewoniak (NAIT - 1998)</td>
</tr>
<tr>
<td><strong>University of Calgary:</strong> For an active member of the ALSA enrolling in a program leading to the award of a related degree (award made upon graduation).</td>
<td>Stephen Fediow ($1,000.00) (1995)</td>
</tr>
</tbody>
</table>

Previous winners of these awards include Steve Fediow, Mike Michaud, Bruce Barnett, Doug Cloake, Doug Lunt, Richard Schlachter, Greg Boggs, Jacques Dupuis, and Daniel Lachance.

The success of the Foundation is the result of hard work by the Foundation’s directors and the generosity of Alberta Land Surveyors. It is a fine testament to Jack Holloway who served the Association so well as Secretary Treasurer from 1946 to 1967.

B.E. MUNDAY
SECRETARY TREASURER

495 Limited Edition Prints - Image Size 20” x 24” (signed and numbered by artist)
Penrose (Pen) M. Sauder, first came west in the summer of 1903, as a machine specialist for Massey Harris. He worked on binders the agricultural implement company were just developing. Pen was so impressed with agriculture on the prairies that, in 1904, after he graduated in engineering from the University of Toronto, he returned to the west once more, this time as an employee of the Stream Measurements Branch of the federal Department of the Interior.

"From this chair a person could measure the depth of the stream every few feet. A little lead fish with a propeller on it helped them measure the velocity as well."

Fred says the surveyors would later engage a local rancher or farmer to take measurements, keep a log and fill out a form which was to be mailed to Regina. Government surveyors would often travel by train as close as they could to the area they wanted to survey, then hire a democrat and a team of horses from farmers to complete the trip. “Government supply teamsters would rendezvous the surveyors every few weeks, bringing supplies of non-perishable food such as flour, sugar, tea and beans,” says Fred. “However, the survey parties were always running out of fresh food, like meat and milk.”

One of the areas visited by Pen’s surveyors was the huge McIntyre Ranch, south of Lethbridge along the Milk River Ridge. There was no one home. “As was the custom of the day in sparsely populated country, the surveyors stayed overnight anyway,” says Fred. “In the morning, they helped themselves to some fresh beef they’d found hanging, in return leaving a supply of flour and sugar.”

“Several years later the surveyors again visited the McIntyre Ranch while checking the Milk River. Billy McIntyre was away but some of his hands were at home and again they exchanged flour and sugar for beef.”

McIntyre and Pen finally met, in the 1930s, through their involvement with the 4-H program, set up to assist the young, up and coming farmers and ranchers.

Pen was partial to Aberdeen Angus cattle, many found in the LNID’s area. McIntyre, of course, raised Herefords. Among other things, they both were supplying calves to young 4-H members to raise,” says Fred. “One year an Angus nosed out a Hereford calf at the Lethbridge Fair. In the auction that followed, McIntyre outbid all others for the Angus just to put some fun in the 4-H work and perhaps to have a good beef to trade to wandering surveyors.”

Pen went on to become manager of the Lethbridge Northern Irrigation District in about 1921, a position he held for 20 years. In 1942, he went to Edmonton as director of water resources for the province, but by 1944 he was back in the south, managing the Western Irrigation District at Strathmore. From 1946 to his retirement in about 1962, Pen managed the St. Mary-Milk River irrigation systems while living in Lethbridge.

He died in 1970 at age 88 and is buried in the city.
Memories of southern Alberta remain dear to Fred Sauder

Fred Sauder, now 82, left Lethbridge for good in 1936. But some of his fondest memories are from his time in this prairie city.

Born in 1914 in Calgary, Sauder came to Lethbridge in 1920 with his father, Pen Sauder, who worked in the irrigation and water resources industry his entire life.

“I have a picture of my mother and dad, taken about 1922, in front of a survey camp tent near Fort Macleod,” says Sauder. “Also in the picture are Mr. and Mrs. Croft, prominent farmers north of Lethbridge, where Park Lake is today. Croft was a successful farmer from the U.S. and apparently did quite well through the 1920s.”

“But the World War hit hard, as did the droughts of the 1930s, and he died a little beyond his 60s. I remember Croft as a very nice farmer. He was on the LNID board until he died. He also had a son, who was a ditch rider with the LNID, and he too, died relatively young.”

Fred’s father, Pen, died in Lethbridge in 1970 at age 88 and his mother, Florence, was 93 when she died in the city in 1976.

Fred remembers, as a five-year-old, living at summer survey camps with his father.

His schooling was split between Lethbridge and the small 12-Mile School, about 10-kilometres north of Park Lake.

“I was the only one who didn’t have a horse to go to school,” he says, with a laugh. “Sometimes the school teacher at the 12-Mile School, Miss Hunt, used to come by the house and get me.”

The young Sauder also recalls LNID Camp 4, about a quarter section of the only uncultivated land around.

“In 1920 and 1921, that area was full of horses,” Fred says. “The farmers were getting rid of their work horses and buying the new tractors which were just coming on the mar-

ket. There must have been 20 to 30 horses running wild on that land.”

While Fred’s parents remained in Lethbridge, he left the city in 1936 for McGill University and never returned. He now lives in Indian River, Ontario.

His memories often bring him back to southern Alberta, even though he hasn’t lived here for more than 60 years.

REPRINTED WITH PERMISSION FROM THE LETHBRIDGE HERALD SUNDAY, JANUARY 31, 1999

P.M. Sauder, A.L.S.

According to the records at the Alberta Land Surveyors’ Association Mr. Sauder became registered as an Alberta Land Surveyor on September 26, 1923 (#125). The last dated correspondence in his file is written on September 6, 1962.

A letter dated February 9, 1962 states, “I am very glad to hear that my talk at the Alberta Land Survey’s Old Timers Dinner was appreciated. While I did quite a lot of the composition myself, I received quite a lot of data

from the Glenbow Foundation, a research organization located in Calgary.

The Alberta Land Surveyors’ Association may publish the biographies of early land surveyors given by me at the Annual Meeting of the Alberta Land Surveyors’ Association on condition that it says that I received quite a lot of assistance from the Glenbow Foundation in Calgary.”

The following is an excerpt from an obituary found in his file at the ALSA office.

‘Mr. Irrigation’

P.M. Sauder dies

...Born on a farm near Galt, Ontario, Mr. Sauder came to southern Alberta in 1904 after graduating from the University of Toronto with a diploma in mechanical engineering.

His career in promoting and working with irrigation projects in southern Alberta spanned 56 years.

Long recognized as a leading expert in irrigation, Mr. Sauder received many honors for his untiring efforts in the field.

Theses included an honorary membership in the Engineering Institute of Canada; the Julian C. Smith medal received in 1947 for “outstanding achievement in the development of Canada;” and honorary life membership in the Agricultural Institute of Canada.

Mr. Sauder joined the Lethbridge Northern Irrigation District at the time of its inception in 1920. Following the second World War, he became general manager of the giant St. Mary-Milk River Development.
### INCOME AND BENEFITS SURVEY—ACTIVE MEMBERS

<table>
<thead>
<tr>
<th>Year of registration</th>
<th>Office of employment (averages)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990-99</td>
<td>Annual Earnings Median = $90,000</td>
</tr>
<tr>
<td>1985-89</td>
<td>Avg. Personal Earnings = $112,522</td>
</tr>
<tr>
<td>1980-84</td>
<td></td>
</tr>
<tr>
<td>1975-79</td>
<td></td>
</tr>
<tr>
<td>1970-74</td>
<td></td>
</tr>
<tr>
<td>Prior to 1970</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nature of present endeavour</th>
<th>Other Commissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(averages per year)</td>
<td>27</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industry (1)</th>
<th>Employment benefits received (yes out of 60 replies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Week (hrs.)</td>
<td>payment of annual registration fees 59</td>
</tr>
<tr>
<td>Earnings</td>
<td>payment of professional development course fees 58</td>
</tr>
<tr>
<td>Vacation (weeks)</td>
<td>payment of Annual Meeting expenses 58</td>
</tr>
<tr>
<td>Government and Education (8)</td>
<td>provision of car allowance, company car 44</td>
</tr>
<tr>
<td>Work Week (hrs.)</td>
<td>provision of pension plan participation 26</td>
</tr>
<tr>
<td>Earnings</td>
<td>provision of medical benefits plans 51</td>
</tr>
<tr>
<td>Vacation (weeks)</td>
<td>provision of Stock Options 21</td>
</tr>
</tbody>
</table>

### TECHNICAL SUPPORT STAFF

(number of replies)

<table>
<thead>
<tr>
<th>Party Chief II - capable of project control and management</th>
<th>(18)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSMT Rating . Senior Technologist Employees .. 6</td>
<td></td>
</tr>
<tr>
<td>Average Hours Per Week .............. 55</td>
<td></td>
</tr>
<tr>
<td>Hourly Salary .............. $20.83</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Party Chief I - good academic background or extensive experience</th>
<th>(21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSMT Rating .... Technologist Employees 5</td>
<td></td>
</tr>
<tr>
<td>Average Hours Per Week .............. 51</td>
<td></td>
</tr>
<tr>
<td>Hourly Salary .............. $16.31</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Survey Assistant - experienced survey aide working under full supervision</th>
<th>(21)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSMT Rating ............ Technologist Employees 2</td>
<td></td>
</tr>
<tr>
<td>Average Hours Per Week .............. 431</td>
<td></td>
</tr>
<tr>
<td>Hourly Salary .............. $13.27</td>
<td></td>
</tr>
</tbody>
</table>

| CAD Operator II - capable of computing and drafting the most complex projects (18) |
|---------------------------------------------------------------------------------|-----|
| ASSMT Rating .... Senior Technologist Employees 3 |
| Average Hours Per Week .............. 50 |
| Hourly Salary .............. $23.04 |

| CAD Operator I - capable of drafting average projects with minimal supervision (17) |
|---------------------------------------------------------------------------------|-----|
| ASSMT Rating .... Senior Technician Employees 4 |
| Average Hours Per Week .............. 48 |
| Hourly Salary .............. $16.66 |

| Calculator Person - capable of computing from field notes and checking plans (9) |
|---------------------------------------------------------------------------------|-----|
| ASSMT Rating .... Senior Technologist Employees 4 |
| Average Hours Per Week .............. 60 |
| Hourly Salary .............. $22.81 |

### Comments:

**Income Survey for Members**

The number of responses dropped to 59 from 89 last year. Last year the median salary was $79,180; this year it rose to $90,000. We can only hope the price of oil continues it’s current downward trend!

**Wage Survey for Technical Staff**

There were increases of more than 10% in all of the office staff categories. It is worth restating the sample size is very small so it’s hard to read anything into the numbers.
SURVEY SERVICES 1998 (excluding GST)

Hourly Rates for Personnel

Field Supervisor
(i.e. Party Chief II) ............... $58/hr.
Two Man Crew ..................... $85/hr.
Each Additional Field Person ... $25/hr.
Manual Drafting (person) ...... $44/hr.
CAD Operator (person) ......... $55/hr.
Calculations (person) .......... $55/hr.
Plan Searching, Printing,
Job Setup ........................ $42/hr.
Final Plan Checker .............. $57/hr.
ALS Professional Fees .......... $82/hr.
ALS Hours Charged in Relation
to Crew Hours Worked .......... 1 to 8

Equipment, Material and Disbursements

Vehicle
-2 wheel ................................ $70/day or $.52/km. or $11/hr.
-4 wheel ................................ $89/day or $.60/km. or $11/hr.

ATV
-2 wheel drive quad ............. $75/day or $10/hr.
-4 wheel drive quad ............. $91/day or $12/hr.
-Argos/Bobcat, etc .......... $181/day or $28/hr.

Snowmobile ........... $93/day or $12/hr.
EDM ............................ $57/day or $10/hr.
Total Station with Data
Collector .................. $107/day or $14/hr.
GPS units (includes field laptops)
Real Time ....................... $344/unit/day
Static Time ................... $228/unit/day
CAD Station ........ $100/day or $22/hr.
Computer Station ... $100/day or $22/hr.

Percentage of hours charged
for CAD station to
CAD operator ...................... 99%

Application, Approval
& Registration Fees ...... Cost + 11%

Disbursements (LTO, ERCB,
LISD, ENR, etc.) .......... Cost + 11%

Communication Equipment
(Walkie Talkie, Cell) .. $24/day or $6/hr.

Subsistence .................. $68/man/day or
$14/meal or Cost + 11%

Pipe Detector .......... $47/day or $10/hr.
Power Saw ............... $18/day or $9/hr.
Legal Iron Posts .......... $10/I.P.
Legal Marker Posts ........ $13/M.P.
Lath, Flagging, Spikes, Iron
Bars ........... $2/field hr. or Cost + 13%
Long Distance Telephone
Calls ........ $2/field hr. or Cost + 10%
Facsimile Charges .......... $1/page

AVERAGE UNIT PRICES (excluding GST)

<table>
<thead>
<tr>
<th>Ave./Survey Unit Price</th>
<th>High/ Low</th>
<th>Number Surveyed</th>
<th>High/ Low</th>
<th>Replies Unit Price</th>
<th>Replies Tariff</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Lot Surveys (subdivision)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Residential</td>
<td>311</td>
<td>600/200</td>
<td>3107</td>
<td>1500/1</td>
<td>19</td>
</tr>
<tr>
<td>- Commercial</td>
<td>450</td>
<td>600/350</td>
<td>68</td>
<td>20/1</td>
<td>14</td>
</tr>
<tr>
<td>2. Real Property Report</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Residential</td>
<td>410</td>
<td>600/325</td>
<td>5166</td>
<td>2500/6</td>
<td>19</td>
</tr>
<tr>
<td>- Commercial</td>
<td>685</td>
<td>1000/330</td>
<td>327</td>
<td>100/2</td>
<td>14</td>
</tr>
<tr>
<td>3. Construction Stakeout</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Residential</td>
<td>624</td>
<td>1250/450</td>
<td>5367</td>
<td>2000/2</td>
<td>18</td>
</tr>
<tr>
<td>- Commercial</td>
<td>950</td>
<td>1200/750</td>
<td>108</td>
<td>60/1</td>
<td>15</td>
</tr>
<tr>
<td>4. Condominium Surveys</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Residential</td>
<td>241</td>
<td>375/150</td>
<td>482</td>
<td>200/1</td>
<td>16</td>
</tr>
<tr>
<td>5. Descriptive Plans</td>
<td>527</td>
<td>800/250</td>
<td>234</td>
<td>60/1</td>
<td>18</td>
</tr>
</tbody>
</table>

Comments:
The numbers we are publishing are based on a very small sample with only 22 practitioners replying to the questionnaire. The following daily rates changed by more than 10%.
- 4 wheel drive ATV dropped from $102 to $90.
- Static GPS receiver increased to $228 from $180.
- CAD station increased to $100 from $53.
- Power saw dropped to $18 from $50.

Some of our members are now charging an all inclusive hourly rate for electronic and communications charges. This rate includes pipe locators, total stations and cell phones. We will include a new category next year. One practitioner made the comment that a survey crew’s rate should include the cost of a total station and a CAD operator rate should include his computer. Please let the office or myself know if you feel any new categories should be added or if existing ones should be dropped. For example, should there be a rate for single frequency receivers or a rate for a real time system instead of a cost per receiver? Do we still need a rate for EDM?

M.R. GROSZ, A.L.S.
SECRETARY TREASURER

*DEADLINE*
March 25, 1999
...for submission of your AGM Registration form to qualify for the early bird draw for two nights accommodation at Jasper Park Lodge. This is also the cut-off date for room reservations at JPL.
The following note was found in the sci.engr.surveying newsgroup:

Here is a very short list of some surveying related Y2K sites on the internet that I know of at this time. Someone should publish and/or post this stuff for all surveyors.

Trimble:
http://www.trimble.com/y2kwnro/index.htm

Microsoft:
http://www.microsoft.com/technet/year2k/

Autodesk:

Motorola:
http://www.mot.com/General/year2000/

Leica (Wild):

HP (Hewlett-Packard):
http://www.hp.com/year2000/

Sokkia (Lietz):
http://www.sokkia.com/y2k/products.htm

Spectra Precision (Geotronics):
http://www.spectraprecision.com/start.html

You have to dig a little to find the Y2K page(s) on some sites, but most are easy to find. Be sure to check out the microsoft.com site if you run any Microsoft programs at all. Even Windows 95 and 98 are not guaranteed safe.

MICHAEL G. SHACKELFORD, PLS
MCSSHACK@ENTERACT.COM

... And here are a couple more...

IHS Energy:
http://www.ihsenergy.com/

Microsurvey:
http://www.microsurvey.com/newsandviews/y2k_pr.htm
The goal of the SPR program is to improve the quality of services and products produced by members of the Alberta Land Surveyors’ Association.
Expanding Your Sphere of Influence Through Better Business Communications:
by Jane Watson

People of influence are the men and women with an organization whose opinions count—not necessarily because they rank high on an “org” chart—but because they have acknowledged experience or are associated with people of authority.

Someone once said the telephone was the death of writing. If this is true, I believe e-mails are its rebirth.

E-mails are now the preferred way of doing business in many companies when people want quick results. However, you will never expand the sphere of your influence within an organization, if you are guilty of sending out e-mails that cause readers to throw up their hands in despair.

You know the ones: e-mails that are riddled with spelling and punctuation errors; writing styles that seem to be outpouring or random thoughts; or requests for action that are vague or difficult to interpret.

Here are some rules for writing e-mails to expand your sphere of influence.

1. To ensure the receive actually opens your e-mail, hook the reader with the subject line. If you have a deadline, place it here, as well as in the body.

2. Start your message with the person’s name (never use Dear in an e-mail). If you are writing to a number of people, begin with an informal word such as, greetings or team.

3. Your first paragraph should tell the reader why he should read your message. The following paragraphs provide necessary details; the final paragraph states the action required. Never write in a chronological fashion. Today’s readers don’t have time for once-upon-a-time writing.

4. E-mails were designed for quick messages requiring quick responses. Most people dislike e-mails that go beyond three screen scrolls. Keep paragraphs under five lines long and use numbered lists whenever possible.

5. Before hitting the send key, check your e-mail for spelling and grammar errors. People won’t tell you about it, but they’ll certainly remember you if your e-mails don’t project a professional image.

6. E-mails can come across as abrupt and demanding. Remember the words of courtesy, please, and thank you; explain why you need an action taken.

Original: I need the figures by Friday.
Revised: Please e-mail me the figures by Friday so I can complete the ABC proposal.

7. End your e-mail with a warm close, Regards, Thank you, cheerio, TTFN.

8. Don’t send e-mails to “strut your stuff.” Send them only to people who need the information.

Jane Watson is a consultant, trainer, speaker and author whose passion lies in helping organizations to advance the communications skills of their staff. Jane can be reached at j.watson@netcom.ca or.
In November of 1998, the Legislature of Alberta passed Bill 42, the Professional Statutes Amendment Act. The passage of this bill effected an amendment to the Land Surveyors Act that added a new Section 67.1.

The new section reads as follows: “67.1 No municipality has the power to require any practitioner to obtain a licence from the municipality to engage in the practice of surveying.”

This provision prevents municipalities from requiring practitioners to obtain a municipal licence in order to practice land surveying within any municipality in Alberta.

The legislation only applies to licences and does not prevent municipalities from requiring practitioners to pay business taxes or other similar taxes or fees.

The passage of Bill 42 also amended the Universities Act with respect to the Universities Coordinating Council’s (UCC) role in the assessment and examination of an individual who applies for registration as an Alberta Land Surveyor. The amendments contained in this legislation delegate the responsibility of professional registration to the professions themselves, while retaining the UCC, for the interim, as the external review or appeal body for applicants who are unsatisfied with the decision of the professional association with respect to the delegated matters.

The consequences of this amendment would be in compliance with the approved resolution #1 from the 1998 Annual General Meeting of the ALSA except for approved revised Section 22 of the examination and training regulation wherein we approved the Western Canadian Board of Examiners for Land Surveying as the appeal body. The purpose of the amendment to the Universities Act is to allow for an interim period of operation until legislative changes specific to each association are submitted and approved.

Our actions at last year’s Annual General Meeting, established the appropriate delegation vehicle that is required by this legislation.
Cansel
(new)
With the 1999 Annual General Meeting approaching, the start of another new Association term will follow. Part of the mandate of the Professional Development Committee is to prepare an annual action plan detailing the courses to be developed and presented by the Association. For the 1999/2000 term, the Committee has selected the following seminars to present: Getting It Right, Exam Preparation, Natural Boundaries, and one other seminar to be determined.

The purpose of these seminars is to educate the membership and technical staff on specific areas on the practice of surveying. The Professional Development Committee encourages all those interested to attend these seminars. For some, the seminars could provide a whole new learning experience while others may benefit by having their memory "refreshed" on certain topics. The Committee relies on new ideas and potential course topics from the membership so that it can develop and present them as seminars. Any ideas or thoughts can be forwarded to the Association office.

These seminars could not be developed and presented without the volunteer time of committee members. As a first time committee member, I encourage all of you at the upcoming Annual General Meeting to sign up for a committee. It has really been an interesting year to see the internal workings of a committee and the effort put forth by those involved for the benefit of the Association. For most, to volunteer is a frightening proposition, but without those who donate their time to committee work, the Association wouldn’t be able to operate on the level that it does.

---

SMY DRAFTING ENTERPRISES LTD.
Suite 206, 10441 - 124 Street, Edmonton, Alberta T5N 1R7
Phone: (bus) 482-2054 (fax) 482-2054 (res) 487-2340
Contact: Ken Smy, C.S.T. (Senior Survey Technologist)

DRAFTING & GRAPHICS SERVICES
for surveyors, engineers & architects

Specializing in:
LEGAL SURVEY & WELLSITE PLANS
DRAFT & FINAL SUBDIVISION PLANS
TOPOGRAPHICAL SURVEY PLANS
STAKE—OUT PLANS
MUNICIPAL, CIVIL & ENGINEERING DRAWINGS
FIELD NOTE REDUCTION & CALCULATIONS
ARCHITECTURAL DRAWINGS, ELEVATIONS & DETAILING

Computer Assisted Drafting
- precision input
- "LARGE PLAN" digitizing facilities
Over the past year, the Canadian Council of Land Surveyors (CCLS), the Canadian Institute of Geomatics (CIG) and the Geomatics Industry Association of Canada (GIAC) have discussed the possible merger of the three groups into one national organization to represent the geomatics industry.

This dialog started in June 1998 when a meeting funded by the federal government was held in Ottawa to consider the future of geomatics in Canada. This meeting resulted in the formation of a task force drawing on representatives of various geomatics discipline. The group was chaired by Dr. John McLaughlin and named the Geomatics Futures Task Force.

The task force’s mandate included hiring an independent consultant to write a report on the possible amalgamation of CCLS, CIG, GIAC and other geomatics associations into one national organization. A draft report was prepared and distributed to various stakeholders across the country for comment. This consultation process included a CCLS meeting held in Winnipeg last September. The CCLS directors and various provincial presidents were in attendance to review the report and provide feedback to the consultant.

Once the stakeholder consultation process was completed, a joint meeting of representatives of CCLS, GIAC and CIG was held in Ottawa in January 1999 to review the amended report and make final recommendations. The completed report, “Geomatics 2000: A Model for A Phased Approach to The Establishment of A New National Geomatics Association” was distributed February 16.

Why Should these Associations Merge?
As technology advances, the lines between the different geomatics disciplines are blurring. Bringing them together under one umbrella will provide a forum for communication and the reconciliation of different sector views. Secondly, it is perceived that a unified geomatics association will provide its members with more cost effective services and more political clout. There will also be less competition for the member’s time and money.

Key Elements of the Report
The following are the key elements of this report:
- Vision
- Mission
- Membership
- Objectives
- Activities and Services
- Revenue and Expenses
- Governance
- Staffing
- Critical Path Forward

Proposed Vision
Canadian leadership in growth and development of geomatics in the information economy for the benefit of society.

Proposed Mission
To provide our members in the geomatics community with opportunities that will enhance their technical and professional development and economic interests, while at the same time enhancing the geomatics sector’s contribution to society.

Proposed Membership
Membership will be open to any company, individual, educational organization, government agency, or
association involved in the geomatics sector. The following categories are proposed:
- Member Firm: private sector companies.
- Member Association: land surveyor associations.
- Sustaining members: companies that are either suppliers or customers to the geomatics industry.
- Associate member: government organizations.
- Individual member: practitioners in government, industry or academia or students.
- Honorary member: criterion for membership to be established.

**Proposed Objectives**
1. To strengthen the business climate in which members can grow and thrive through the identification of business opportunities and the provision of timely, value-added member services.
2. To enhance the educational, technical, and professional development of the sector through innovative education, training, and accreditation programs and standards.
3. To enhance public awareness of and support for the critical role that geomatics practitioners play in the global economy.
4. To provide an effective forum for industry wide communications and interchange between geomatics practitioners and users on advances in product/service capability, technological innovation, industry trends and emerging issues.

**Proposed Proposed Activities and Services**
The activities and service delivery for the new organization fall into three broad categories: business and member services, education and professional development, and communications and public affairs. Under each of these categories many services and activities are proposed. For the sake of brevity I have only listed a few examples.

**1. Business and Member Services**
One of the services proposed in this category is the administration of a national liability insurance program.

**2. Education and Professional Development**
One of the proposed activities includes negotiation of reciprocity of professional practitioners under NAFTA, as well as addressing reciprocity issues within Canada.

**3. Communications and Public Affairs**
Services would include operating a national web site, publishing sector newsletters and representing the industry in influencing public policy.

**Proposed Revenue and Expenses**
The combined annual budgets of CCLS, GIAC and CIG total $906,000 (the annual budget of CCLS is around $106,000). If the organizations join forces there will be a savings in overhead and service delivery. Because there is a low reliance on membership dues for CIG and GIAC, it is not anticipated that the loss in revenue caused by the elimination of overlapping memberships will be significant for the new association.

**Proposed Governance**
The association will be governed by a board of fifteen voting directors. The officers would include a chair, three vice chairs, a secretary treasurer and ten directors at large. The senior staff person of the association would be an ex officio member of the board.
The vice chairpersons would not be defined by the sector they represent, rather by the function they will be responsible for (communications, business services, professional development). The various sectors within the association would be represented at the committee level.

**Staffing**
It is anticipated the new organization will have 6 permanent staff: A senior staff person, an administrative assistant, three managers (business and membership services, education and professional development, communications and public relations) and a publications coordinator.

**Critical Path Forward**
The board of directors for CCLS will be meeting in the next few weeks to consider the recommendations of the final report. Each director will then report back to his provincial council and seek direction at the provincial level. It is anticipated that the CCLS directors will then vote on a motion to enter into an interim agreement with CIG and GIAC at the annual meeting in June in Newfoundland.

If the motion is passed, an interim board will be formed with equal representation from CCLS, GIAC and CIG. A senior staff person will be hired by the board and the new organization will run on a trial basis for one year. A final vote on amalgamation would then be held in July of 2000.

If any member would like further information on this proposed merger, the full report is available on the ALSA web site. Any feedback would be welcome. My email address is mgrosz@caltechsurveys.com.
The Foundation of a Survey

At first glance, your initial thought might be that this section would contain information concerning weight of controlling monumentation or maybe legal principles of surveying. However, we will back up a step further to hardware; specifically, the tripod.

The tripod is the physical foundation for the instrument and one of the many intricate tools required to complete an accurate survey. Whether that tripod is utilized in traversing, running level loops, performing a GPS static survey or in construction staking, consideration should be taken to match it with the particular application and environment it is to be used in.

We will offer some points to ponder concerning the options that are available when it comes to purchasing a tripod.

Wood

The heavy-duty wood tripod has been primarily the tripod of choice even before the widespread use of an optical plummet instrument. Normally made of oak or maple and weighing about 15 to 18 pounds, it is made strong enough to accommodate your heaviest instrument. And if you should substitute a lighter instrument of a GPS antenna as your fixture, you should not have a problem.

The weight of the heavy-duty wood tripod is probably its best and worst feature. The positive side of the weight issue is that a good heavy-duty wood tripod is built solidly enough to hold the heavier total station with confidence. The added weight will offset and distribute this weight, keeping it from being top-heavy, especially when using an instrument like a robotic total station. When the heavier tripod is used as a backsight stand, the added weight will help keep your setup stabilized, and it will not topple over in windy weather.

Too much is better than not enough when several thousand dollars are attached to a three-legged perch. Moisture is a factor that has adverse effects on the wood tripod. The dampness can make the legs swell and cause difficulty in adjusting. If you are working in and around wetlands, you might consider a different style.

Aluminum

Aluminum is a good alternative for survey crews who are looking to lighten the load they carry. Normally about 11 pounds, you can clearly see there is a considerable weight difference compared to the 18 pound wood tripod. The lighter total stations being made today also yield a more even distribution of weight when used with the light aluminum tripod. Moisture is a factor that has adverse effects on the wood tripod. The dampness can make the legs swell and cause difficulty in adjusting. If you are working in and around wetlands, you might consider a different style.

Adjusting Clamps

Most tripods today, because of the widespread use of the optical plummet, have incorporated adjustable legs to expedite setup time. The legs which are able to retract also allow for a more compact bundle during transportation. There are two primary locking mechanisms today to aid in locking the legs: the traditional wing screw style and the more modern quick release lever.
The wing screw style is one of the surest means of locking the legs in place, since it takes a good turn of the knob to loosen. The input I receive from a wide range of customers tells me that they are quite adamant in taking care of their equipment and want security from accidents, sometimes more than efficiency. The screw clamps seem to fill this need.

With the quick release, you do get efficiency. Having a single cam lever as a lock makes it extremely fast to operate, and with fewer moving parts it is less likely to break down. The lever is economical to repair and the tension is easily adjusted by a single nut. The quick release lever is mounted higher than the wing nut style allowing for less bending to unlock the legs.

**Heads: Flat vs. Dome**

First and foremost, do not use a total station on a dome head tripod! If you compare the tribrachs on total stations with the base on an auto level, you will notice that they are made differently. The total station tribrach is designed primarily for a flat surface. You need this smooth surface to be able to slide the instrument on a horizontal plane, allowing the optical plummet to find your point. Also, the more metal-to-metal you have, lessens the strain of contacting parts.

The auto-level bases are machined to accommodate a flat or a dome surface. A dome head can be more favourable over a flat head, allowing you to quickly slide the level to a rough plumb before locking it in place.

The total station tribrach is designed primarily for a flat surface.

This quickens levelling time and lessens your chance of bottoming out your adjustment screws while leveling on uneven terrain.

We have only scratched the surface on tripods, but I hope this information will give you some insight on how material and weight play a factor on an instrument setup and how to use them to your advantage.

Randy Black is a sales manager for Hayes Instrument Co. Inc., Shelbyville, Tenn. He has 12 years of experience in the survey industry.

REPRINTED WITH PERMISSION FROM POINT OF BEGINNING, OCTOBER 1998

---

**RASCAL Software Suite**

Rigorous Adjustment and Statistical Analysis (RASCAL) provides capabilities for 1, 2 and 3 dimensional survey networks and includes full reliability analysis, variance component estimation, and rigorous statistical testing of outliers.

**EARTH**

EARTH permits the geodetic conversion module to perform cartesian, geographic, and mapping plane conversions. The module reads a variety of input files including RASCAL output files.

**LOWER PRICES**

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>RASCAL</td>
<td>$995</td>
</tr>
<tr>
<td>EARTH</td>
<td>$295</td>
</tr>
<tr>
<td>readATS</td>
<td>$ 95</td>
</tr>
</tbody>
</table>

**readATS**

readATS is a DOS program with an easy to use interface developed to access the Alberta Township System files and extract the display coordinates of selected sections, townships, or individual corners. Output selectable to geographical, UTM and 3TM. The coordinates can also be output to an AutoCad script (.scr) file along with the line work for road allowances, section lines, and identifiers. The ATS file is available from Alberta Environmental Protection - Resource Data Division.

---

**CONTACT US**

Usher Canada Limited
Professional Surveyors

500, 6130 - 3rd Street S.W.
Calgary, Alberta T2H 1K4
Tel: (403) 640-9002
Fax: (403) 640-9005
ucl.calgary@ushercan.com

18136 - 102 Avenue
Edmonton, Alberta T5S 1S7
Tel: (403) 484-4644
Bus: (403) 486-1134
ucl.edmonton@ushercan.com

---

March 1999  www.alsa.ab.ca  ALS News • 33
Customizing MicroSurvey CAD Pro. 3.1

MicroSurvey CAD Pro.3.1 has a lot of power but to make it easier for everyone to use it, the program can be customized. Lets take a look at one file that allows you to customize your input to match the way you work. The file \MSCAD31\CFG\SAMPLE.KEY has many sections in it that can all be customized by you.

Do not remove or change any of the headings in this file shown inside the [brackets].

The first portion of the file contains all the function key combinations available. All you need to do is add the command after the = sign. Then while in the program, if you press this function key, the command you have equated it to will be run. Here is a portion of this segment. There are four portions here, the Function key alone, and then the Function key preceded by the Ctrl Key, the Alt Key and the Ctrl and Alt keys. Each of these can be set to different CAD and Survey commands. The ‘ character makes the command transparent so it will run inside of another command. Simply follow the format shown but use the Letter and Command you wish instead of ones shown below. Feel free to add other letter keys as you desire.[FCAD FctKeys]

F1=’? 
F2=’tscreen 
F3=’redraw 
F4=’regen 
F5= 
F6= 
F7= 
F8=’tortho 

Ctrl_F1=^^AUTOP 
Ctrl_F2=^^mseditor 

Alt_F1=^^LISTP 

Ctrl_Alt_F1=(f:load f:usertext “usertext”):(defun C:XS () (f:usertext nil))(princ):XS.
The next segment of the SAMPLE.KEY file has Ctrl keys setup with letters to allow a more direct command relationship. You can setup as many of these as you require. Simply follow the format shown but use the Letter and Command you wish instead of ones shown below. Feel free to add other letter keys as you desire.[FCAD CtrlKeys]

Ctrl_G=^^COGO 
Ctrl_D=^^deletep 
Ctrl_L=^^listp 
Ctrl_P=^^point_pro_toggle 
Ctrl_S=^^angles_right_report 
Ctrl_T=^^cnf_edit_toggles 

The next segment is a list of commands found on the Option Bar, when no command is running. The option bar is found at the top of the drawing screen below the command prompt area. You may change the commands, change the order of the commands or add your own, as you desire. The number of commands that you can see on the option bar will vary depending upon the resolution of your screen. If the list is too long to view them all then you will be given two little arrows to the left of the screen to allow you to scroll to the remainder of the commands.[CONTEXT BAR]

ASSISTANT=^^assistant 
GraphicEdit=^^graphic_editor 
Toggles=^^cnf_edit_toggles 
COGO=^^COGO 
ViewLog=^^mseditor 

LogFileTog=^^log_file 
PntProTog=^^point_pro 
PntDescTog=^^point_desc 
DrawLineTog=^^draw_line 
DrawBearTog=^^draw_bearings 
DrawDistTog=^^draw_distances 
DrawElevTog=^^draw_elevations 
DrawDescTog=^^draw_desc 
InScaleTog=^^input_scale 
OutScaleTog=^^output_scale 

The Context Menu can be found, when no command is running, by holding the Ctrl key down and picking with your left mouse button, at the same time. A little floating menu will appear with the following commands on it. As in the above segments, you can customize this to display the commands of your choice. The wording on the left of the = sign is what appears on the menu, the command is on the right of the = sign. SEPARATOR= is a blank line to help group like commands.[CONTEXT MENU]

MSCAD Project Manager...=^^project_manager 
Main Job Defaults...=^^cnf_edit_general 
AutoMap System...=^^Automap_editor 
Auto Add Objects=^^auto_add_database 

SEPARATOR= 
Delete Points=^^deletep 
Add/Edit Points=^^editp 
List Points=^^listp 
Renumber Points=^^ms_start_renumber 
Scale Points=^^ms_scalepts
The last portion of the SAMPLE.KEY file are simple alias commands. On the left side of the = sign is the letter combination that you wish to type, on the right side is the command it runs. This allows you to setup simple short key strokes so they will run commands of your choice. As with the previous segments, the commands can be CAD, Survey or QuickSurf related. The Alias portion of this file can also be accessed directly from inside the program by typing the command CONFIG and then picking the ALIAS tab.

[ALIAS COMMANDS]
A=arc
BREAK=delpartial
C=CIRCLE
CP=COPY
E=delete
L=line
LIST=einfo
M=move
OSNAP= precpar
P=pan
PEDIT=polyedit
PL=POLYLINE
R=REGEN
Z=zoom
ZA=zoom e
ZE=zoom e
ZP=zoom p
ZW=zoom w
PLAN=planview
RECTANG=rectangle
UNITS=UNITSETUP
Cl=cont_interval
TL=(f:load f:usertext “usertext”);(defun C:XS () (f:usertext nil))(princ);XS

Make a copy of this file somewhere safe to ensure that we do not over ride it when we supply you with updates or upgrades.

This file, when configured, can make your life a lot more comfortable and help save you time searching for the commands you need.

“Tips and Tricks” has been brought to you by Glen W. Cameron, C.E.T. Glen is the Technical Support Manager at MicroSurvey Software, Inc., working out of Corbeil, Ontario, Canada. Glen is providing support North America wide (and now into Australia), for the entire MicroSurvey product line. Glen has been instructing on and supporting these products now for over eleven years while traveling from; Yellowknife to Bermuda, Newfoundland to Oregon and extensively throughout Ontario. Glen graduated from St. Lawrence College - Kingston, Ontario, with honours in Civil Engineering Technology in 1985, and worked in the field, surveying for several years. With his practical experience as well as the extensive, professional training and technical support he provides, his “Tips and Tricks” will undoubtedly assist even the more experienced users!
POWER ON THE PROPERTY LINE

Can a power line on an adjoining tract create a prescriptive easement on the lot you are surveying? “The New Mexico Court of Appeals says yes.” Here’s what happened.

The power company constructed a power line in 1974 very close to the lot line, but none of the policies were actually on the subject lot. They did not obtain a written easement. The plaintiff bought the lot in 1986 to build a house. They obtained a building permit and were all ready to go when the power company told them that they claimed a thirty foot easement, centered on the property line which would thus include fifteen feet of their lot. The line was only a single phase line, but they said they had plans to enlarge it. This would make the lot unusable, and the owner sued.

The trial court held that the power company did not have prescriptive easement because there was no open or visible use over the plaintiff’s land and they could not have reasonably known of the extent of the claimed easement. Then the judge went further and found that a three or three and a half foot easement was needed from the lot for the safe operation of the line, so he ordered the power company to tear down the line. In other words, the property owner came home with all the marbles. (Since the power company has the power of eminent domain, we can infer that the actual result would be the payment to the lot owner for the decrease in value of the lot caused by the easement.)

But the power company got that reversed. They clearly had a prescriptive easement under the line where their poles were located, but the high court said that they also have a secondary prescriptive easement over that portion of the lot which is necessary to maintain and repair the line. The trial court was directed to determine the width.

You have always known that you have a very important responsibility to detect and report any evidence of any adverse use on the tract you are surveying; a path, a pipeline, power poles, etc. but now you need to show on your plat any such use close enough to the property line which could possible create a secondary easement on your tract. As with any adverse use, you do not have to decide whether a prescriptive right actually exists, but you do have to tell the world that it might.

REPRINTED WITH PERMISSION FROM THE MAINE SOCIETY OF LAND SURVEYORS “BEARINGS”, WINTER 1998
Thank you again for the opportunity to report on the activities of the ASSMT as our two organizations prepare for their respective annual general meetings in Jasper and Red Deer. In December, our Society certified the following new members:

**Don Perrin**  
Senior Technician, Cadastral, The Focus Corporation Ltd., Edmonton

**Steve Elyea**  
Technologist, Drafting/G.I.S., Geodesy Digital Mapping Inc., Calgary

**Kelly Kearns**  
Technologist, Cadastral  
S.E.S.L. Geomatics Ltd., Calgary

**Greg Dolphin**  
Senior Technologist, Cadastral, Stewart, Weir & Co. Ltd., Edmonton

**Eugene Liu**  
Senior Technologist, Photogrammetry, Remote Sensing  
Land Data Technologies Inc., Edmonton

**Dale Drickl**  
Technologist, Cadastral  
Stantec Geomatics Ltd., Calgary

We honor them and their companies for taking that extra step.

We also would like to welcome the following student members from SAIT: Cameron Twa, David Cowie, Treena Lamarche, and Michelle De Neve. Michelle and Treena were our double Bursary Award recipients at SAIT in 1998. They were our guests at the regional meeting in Jasper in December. Their presence was a source of honor at the regional meeting in Jasper.

At the present time, our members are receiving their annual dues notice and survey questionnaire from Registrar Hugh Furber. The survey was prepared by Peter Charlebois, Chair of our Membership Committee. We urge our members to pay promptly and to fill in the survey. It is vital as it is our main source of revenue. In addition to the wage and hours of work information, our members are asked whether they would serve on committees or run for Council. Our list of nominees for election is almost set and we will be offering candidates from Calgary and Edmonton. The ballots will be mailed in early April.

At the Council meeting at the Red Deer Curling Club in February, we received a surplus PC and Laser Printer from the ALSA which was delivered by our past ALSA Advisor Bob Haagsma. Thank you very much for this generous gift. It will be put to very good use, I assure you.

In addition, we have received a $500 donation from the ALSA toward an upgrade of our List of Past Councills entitled *The Book of Honor*. ALSA Advisor Henry Palindat will be overseeing the project which will be completed by 2000, our 30th anniversary. A message to past members—if you have any photos, memorabilia or history of the Society, please contact Henry Palindat in Edmonton at (780) 462-3357 or Stutt Pottruff at home (403) 244-3732. We thank the ALSA for the opportunity of preserving our heritage in a very meaningful way.

Plans are under way for our Annual Meeting at the Capri Centre in Red Deer on May 7th and 8th, 1999. On Friday, May 7th, our Provincial Survey Competition will take place in the parking lot of the hotel and convention centre. There will be a tent for refreshments and it will be open to the public. The cost is $50/2-person team and it includes the Awards Dinner on Saturday night after our Annual Meeting. Each team provides its own equipment and one person must be an ASSMT member or applicant. Registration will be available soon. At the banquet on Saturday evening, we will also be awarding Certificates of Recognition to some very worthy individuals. It will be a great success, I know. We will be approaching firms to sponsor our Annual Meeting and Survey Competition.

In other news, Councillor Farley McKenzie is now the co-editor of the *Link*, along with myself. The next edition will be out in March/April. We will be looking for input from our members. The 1999 budget was struck in February. In March, we will be requiring annual reports from our committees.

I hope many of our members will travel to Jasper in April to take in the ALSA Annual General Meeting and Convention. We will be sending our President, Barry Bley, to represent us and he will be glad to meet you at our booth or table. It looks like an outstanding event for all. We appreciate receiving the opportunity of attending and I trust many ALSA Associate Members will take part. Have a great meeting!

We will be reporting on our Annual Meeting and Survey Competition in June. I am sure all the surveys crews are enjoying this incredible weather. Best wishes and don’t forget about certification.

**R. Weber Consulting Inc.**

Quality Drafting & Calculating  
133 Douglas Ridge Pl. S.E.  
Calgary, Alberta T2Z 2T2

Office (403) 720-4200  
Cell (403) 720-4166  
Fax (403) 720-4166

Robert M. Weber  
robweber1@home.com
ALS News

www.alsa.ab.ca March 1999

ALS Executive Director Brian Munday presenting the NAIT Scholarship Award to Kevin Jerabek, a student in the NAIT Geomatics Engineering Technology Program

John Holmlund checking out the Greenwich Meridian

NEW!
from SOKKIA

POWER SET 4010

The Award Winning Power Set Series, is one of the most Sophisticated Total Stations ever developed, with the most powerful on board easy-to-use Field Application Program ever.

Features

- Increased Internal Memory
- Water Proof, Dust Proof & Shock Proof Memory Cards
- Full Alphanumeric Key Board, large easy to use LCD display
- On Board Software for Land Surveying, COGO + Roading (optional)
- Precision:
  - Angular accuracy to 1_sec
  - 90mHz- High Processing Speed
  - 1800m to 1 prism
- Ultra-light body (5.4kg)

For Position Only

Yours for less than $490.00 per month (based on 36 month Lease CAC).

BUTLER SURVEY SUPPLIES LTD

Edmonton
10032 - 79th Ave.
Edmonton, AB T6E 1R5
Bus. (780)433-2596
Fax. (780)433-2040
Toll Free 1-800-881-8819

Calgary
236 40th Ave. N.E.
Calgary, AB T2E 2M7
Bus. (403)278-5587
Fax. (403)277-8090
Toll Free 1-800-661-1129

Richmond
Unit #1 11460 Voyageur Way
Richmond, BC V6X 3E1
Bus. (604)278-1719
Fax. (604)278-2804
Toll Free 1-800-867-5944
Geomatics Engineering Professor Wins Award

The Department of Geomatics Engineering is pleased to announce that Dr. Naser El-Sheimy won the 1998 Calgary Herald - Canadian Hunter Exploration Ltd. - Petro Canada Young Innovator Award for his research proposal on “Keeping Canada Green: A Real-Time Integrated Navigation and Imaging System for Managing Forest Fires.” The Award is intended to support outstanding new faculty members, aid the launch of their innovative scholarly careers and articulate the commitment of the Calgary Herald, Canadian Hunter Exploration Ltd., Petro Canada and the University of Calgary in the support of outstanding scholarship as an enrichment of the learning environment and a contribution to society. The award carries a stipend of $20,000 for launching the proposed research through capital and operating expenses support. The award will strengthen the real-time multi-sensor systems research area of the department.

Dr. Michael Collins Appointed Associate Professor

We are pleased to announce the return of Dr. Michael Collins from an eighteen month appointment in the Department of Geodesy and Geomatics Engineering at the University of New Brunswick. Dr. Collins’ field of specialization is remote sensing and he has an active research program that includes imaging geometry, environmental monitoring and image interpretation. He has strong research connections throughout western Canada and is also active in the GEOID NCE both as a project leader and an investigator.

Dr. Collins will initially be involved in the teaching of remote sensing and computer programming. He is the recipient of several teaching excellence awards. Michael will join a growing group of faculty in our department involved in remote sensing, GIS and environmental monitoring.

Hire a U of C Geomatics Engineering Graduand or Student

In Spring 1999, over twenty-five people are expected to graduate with a B.Sc. in Geomatics Engineering from the University of Calgary. In addition, many of the forty-eight 2nd year and forty-seven 3rd year students will be looking for summer and/or internship employment. Their resumes can be found on the website (www.ensu.ucalgary.ca/~gess) which also provides the information required to contact the students directly or the Geomatics Engineering Student Society to set interviews.

Career Opportunity

If you’re an Alberta Land Surveyor interested in a challenging career with a successful company, here is a firm with a position available as: .................................................................

President, Legal Survey Division

In an established, profitable, leading organization you’ll bring several years of legal surveying and management experience to the corporate head office in Edmonton. You consider yourself a good communicator and an effective decision maker, comfortable at all organizational levels. You understand the meaning of team work and will work with an experienced, well organized staff who will benefit from your strong leadership skills.

You are an established Alberta Land Surveyor with a technical understanding of surveying in the “Oil Patch,” Plan Registration, and Land Management relating to the industry. There is a generous compensation and benefits package including an equity opportunity to the right candidate. Please respond in strictest confidence to:

4441 - 99th Street, Edmonton, Alberta T6E 5B6
or e-mail resumes to relayer@direct.ca
Telephone inquiries: (780) 988-8840

PSR PROFESSIONAL SURVEYOR RESOURCES
FOR SALE

We are taking orders for maple syrup. We offer high quality maple products at a good price. Please contact Norma or Daniel at (780) 465-6019
www.compusmart.ab.ca/maplesyrup

WANTED

Would like to purchase old editions of the Manual of Instructions for the Survey of Dominion Lands for my reference library. Condition not critical. Contact Rod at work: (780) 424-5511 or home: (780) 455-6624.

J.H. Holloway Scholarship Foundation

March 1, 1997 — March 1, 1999
Donors have contributed up to $500 to the Foundation.

Ken Allred, A.L.S.
Alpine Land Surveys Limited
Dr. Brian Ballantyne
Dick Bassil, A.L.S. (Ret.)
Kevin Beatty, A.L.S.
Blaine Benson, A.L.S.
Lou Breton, A.L.S. (Ret.)
Caltech Surveys Ltd.
Cam Christianson, A.L.S.
Barry Clarkson, A.L.S.
John Deyholos, A.L.S.
Frontier Survey Services Inc.
Don George, A.L.S.
Stephen Green, A.L.S.
Hamilton & Olsen Surveys Ltd.
Alex Hittel, A.L.S.
Hal Janes
K & M Survey Services Ltd.
Kellam Berg Engineering & Surveys Ltd.
Roger Leeman, A.L.S.
Army MacCrimmon, A.L.S. (Ret.)
Dr. Alec McEwen
George Moore, A.L.S.
L.R. Olson & Associates Ltd.
Joseph Longo
Longstaff Land Surveying Ltd.
Northland Surveys
Buck Olsen, A.L.S.
Henry Palindat, A.L.S. (Ret.)
Lyall Pratt, A.L.S.
Ted Rippon, A.L.S.
Kasimir Sawicki, A.L.S. (Ret.)
John Sung, A.L.S.
Allan Theriault, A.L.S. (Ret.)
Stewart, Weir & Co. Ltd.
Westacott Consulting Ltd.

March 1, 1997 — March 1, 1999
Sponsors have contributed $500 or more to the Foundation.

All-Can Engineering & Surveys (1976) Ltd.
All West Surveys Ltd.
The Cadastral Group Inc.
Can-Am Surveys Ltd.
Challenger Surveys & Services Ltd.
Crape Land Surveys Ltd.
Focus Corporation Ltd.,
The George Munro & Associates Ltd.
Hagen Surveys (1976) Ltd.
Lowe Surveys Ltd.
Maltais Associates Surveyors Ltd.
Bob Mayne, A.L.S.
Midwest Surveys Inc.
Stanley Geomatics Ltd.
Stantec Geomatics Ltd.
Don Tomkinson, A.L.S.
Usher Canada Limited
Jack Webb, A.L.S.

Thank you for your generosity and support!