

# THE NOVA SCOTIAN SURVEYOR

Fall 2007

No. 181



**57th Annual General Meeting  
Keltic Lodge, Ingonish Beach, Nova Scotia  
October 11 - 13, 2007**

*Improving field crew productivity*

# Eliminate Base Stations!



Cansel Survey Equipment has launched Can-Net, a GPS reference station network across Canada that provides GPS data for real-time or post-processed applications.

## Key Benefits

- Users require only a rover receiver, data collector and cell phone
- Hardware costs are virtually cut in half for new users
- Productivity increases are gained through elimination of base station set up
- Reduced theft risk—no base station to worry about
- Base station set up errors are eliminated
- Radio problems are eliminated
- Cable-free when using Trimble 5800 or R8 receivers

## Trimble R8 GNSS Receiver

- 72-channel, multi-frequency GNSS receiver, antenna, and radio combined in one compact unit
- Supports GPS L2C and L5; GLONASS L1/L2



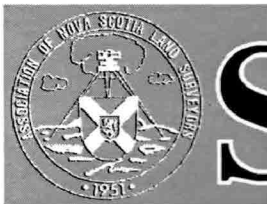
Trimble <sup>2007</sup>  
**DIMENSIONS**  
November 5 – 7, 2007  
Mirage Hotel, Las Vegas  
[www.trimbleevents.com](http://www.trimbleevents.com)

1-888-222-6735 • [www.cansel.ca](http://www.cansel.ca)



Winnipeg • Toronto • Ottawa • Montreal • Quebec • Halifax





# THE NOVA SCOTIAN SURVEYOR

FALL 2007

No. 181

## CONTENTS

## PAGE

<b>President's Report</b> .....	<i>Thomas F. Giovannetti</i> .....	<b>2</b>
<b>Executive Director's Report</b> .....	<i>Fred Hutchinson</i> .....	<b>6</b>
<b>SRD Manager's Report</b> .....	<i>Gerry Bourbonniere</i> .....	<b>8</b>
<b>Service NS &amp; Municipal Relations Land Registration Conversion Statistics</b> .....		<b>10</b>
<b>Candidates for President and Vice-President</b> .....		<b>12</b>
<b>Candidates for Council - Zones 2 and 6</b> .....		<b>14</b>
<b>Obituaries</b> .....		<b>15</b>
<b>Someone Else's Survey: Can You Trust It?</b> .....	<i>Donald A. Wilson</i> .....	<b>17</b>
<b>Vantage Point: Mom Was Right</b> .....	<i>Wendy Lathrop</i> .....	<b>19</b>
<b>Notice of Motions</b> .....		<b>20</b>
<b>2007 Committee Reports</b> .....		<b>21</b>
<b>2006 Audited Financial Report</b> .....		<b>27</b>
<b>2008 Proposed Budget</b> .....		<b>37</b>
<b>Notice of Motions (continued)</b> .....		<b>44</b>

## THE NOVA SCOTIAN SURVEYOR

**Editor:** Fred C. Hutchinson

**Production:** Kathy Alcorn and Wade Atlantic Limited

**Cover:** Aerial photo of Keltic Lodge courtesy of Keltic Lodge.

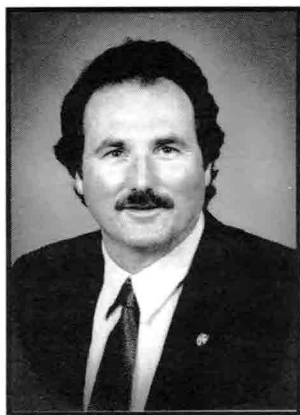
**Circulation:** Free of charge to ANSLs members. To non-members at a yearly rate of \$12.00 in Canada and the USA; \$16.00 plus handling charges for other countries.

The Nova Scotian Surveyor is published three times a year. Address all enquiries to: The Association of Nova Scotia Land Surveyors, 325-A Prince Albert Road, Dartmouth, NS, B2Y 1N5 Canada. Tel: (902) 469-7962; Fax: (902) 469-7963; E-mail: [ansls@accesswave.ca](mailto:ansls@accesswave.ca)

- Views expressed in articles appearing in this publication are those of the author and not necessarily those of the Association.
- Letters to the Editor should be limited to one page.
- Articles or material originating with the Association of Nova Scotia Land Surveyors or its members may be reprinted without permission, but should include the appropriate credit.

## PRESIDENT'S REPORT

*Thomas F. Giovannetti, P.Eng, NSLS*



This is my final report as President of the Association. The final Council meeting for my tenure will be on September 14<sup>th</sup>. It is my hope at this time that the meeting will be productive and beneficial to the membership. I say this as a majority of time has been spent in past Council meetings with two major housekeeping items, MCE and SRD. To date, the MCE and SRD issues are now under control within the jurisdiction of Council's authority.

Mandatory Continuing Education (MCE) is a vehicle to promote continuing education throughout the profession. MCE has now become an important tool to help professionals to continue to train themselves in readiness for the ongoing changes in their profession. There is a need in the profession for uniformity or normality from which governance of the profession can be achieved by enforcing standardized requirements for the profession. With national standardization procedures, the prospect for greater labour mobility throughout Canada can be achieved. This could partly be accomplished by adopting a Canadian Board of Examiners for entrance requirements. It is my understanding that at the AGM Jeff Fee, P.Eng., NSLS, CLS, will provide a presentation on the workings of the Canadian Board of Examiners for Professional Surveyors (CBEPS).

MCE has become an important tool to achieve standardization and uniformity as it promotes the association member to become active in his or her Zone in both education venues and/or by association with other members via Zone and/or annual general meetings. Continuing education promotes awareness and competence in the manner in which we maintain standards of professional ethics, knowledge and skills among members and protection of the public with the regulation of the practice of professional land surveying. By being prepared and educated we can better protect the public and better shield ourselves from litigation arising from the perception of incompetence. Being MCE compliant means we are better skilled together as an association to handle the advancement of the profession and continued protection of the public.

An important vehicle to maintain standardization is through our Association's Survey Review Department (SRD). In the next 18 months, it is hoped that, with the guidance of the membership and Council, Gerry Bourbonniere, NSLS, will be able to re-define / re-shape the function of SRD.

In this last report as President, it is my wish to instill in our membership the willingness to cooperate with each other for the benefit of the profession. We should appreciate the uniqueness and diversity of our heritage and the manner that we practice land surveying together for the public good. It is my hope that the members will work together for the benefit of the Association when attending our business sessions. We may not all share the same opinion, however we should all be considerate of each other's opinions and reach a mutual compromise and understanding of the issues or motions presented to the membership at the AGM.

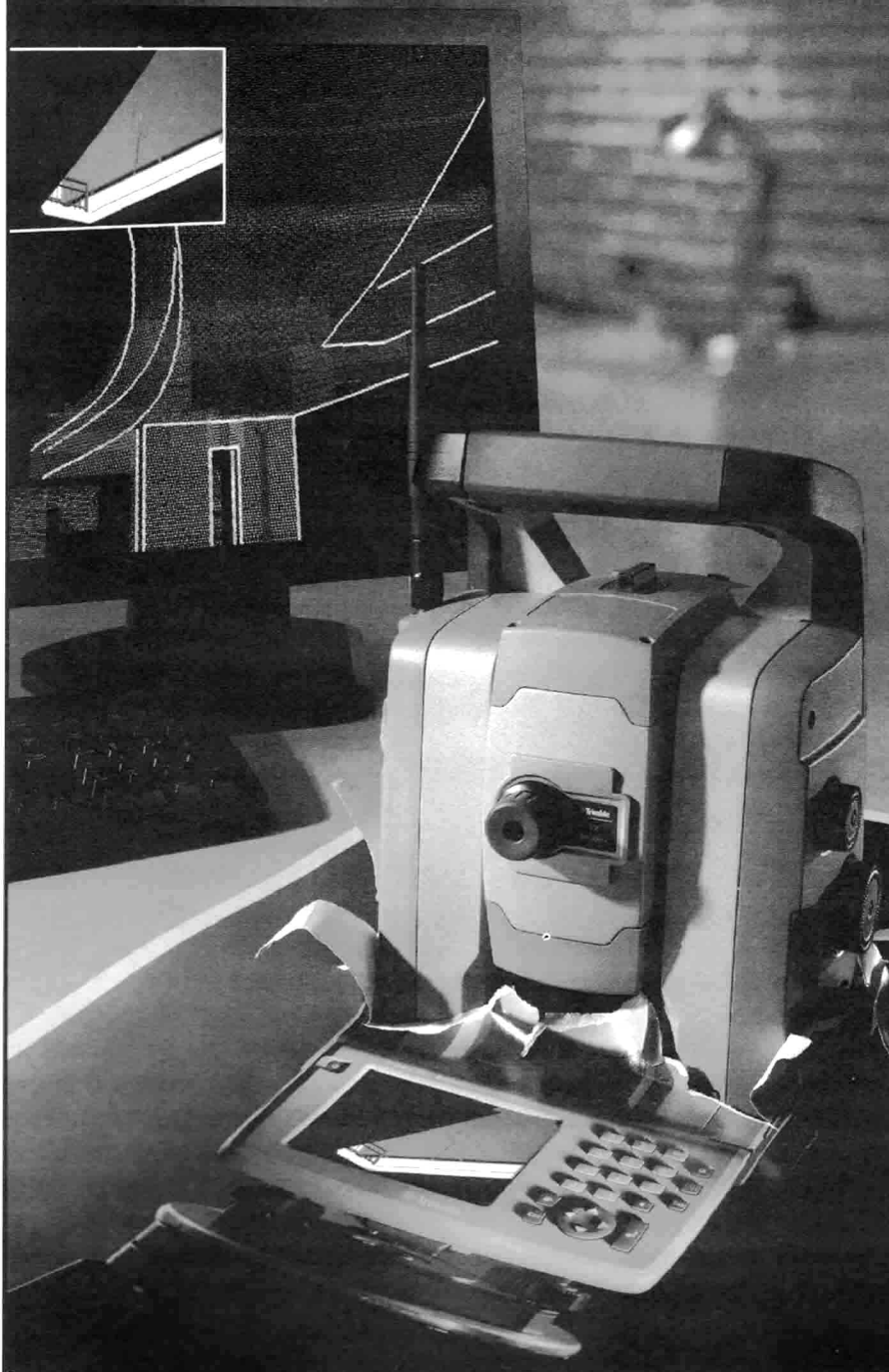
Council has been very busy dealing with the past, present and future issues facing our Association. Garry Parker, Russell MacKinnon and I have had close contact with each other throughout this year. Through Council and the Administrative Review Committee (ARC), which consists of Russell MacKinnon, Garry Parker (Chair), John Ross, Jeff Fee and myself, we have provided opinion to Council on the administrative aspects of our Association. In the coming year I will be chair of the ARC and will continue the efforts set out by the past presidents. We intend to work more closely with the Strategic Planning Committee in that regard to ensure that we are working together to provide a sustainable Association of Nova Scotia Land Surveyors.

In the future there will be increasing financial demands on our Association from national and strategic planning initiatives. The decline in our membership will create a shortfall in our cash flow that is needed to survive as an Association. At our AGM we, as members, need to be considerate of the motions presented and the necessary debate to allow each member to participate in the governance of our Association. Perhaps some of us might have disgruntled feelings or issues with Council, staff or other members. That is your prerogative as a member. However, our failure to work together as an Association will render us weak and vulnerable to others, causing a continued erosion of our services to the public.

Throughout this year, both myself and Russell MacKinnon have represented the ANSLS at sister association meetings. Your new President is knowledgeable of the provincial, national and international challenges we may face in the future. Russell, in my opinion, is well prepared to serve as your President for the best interest



**One instrument.  
Three dimensions.  
Everyday uses.**



From cadastral to stake-out to as-built and volume measurements, the Trimble® VX™ Spatial Station is a surveying and Spatial Imaging instrument that works as hard as you do.

Designed to quickly capture everything from individual coordinates to complete 3D site scans, the Trimble VX provides a single, integrated approach for a range of data collection needs. Versatile and precise, with the Trimble VX surveyors can do more every day.

#### **Trimble VISION™ Technology**

In the field and in the office, the integration of optical technologies, imaging and 3D scanning streamlines workflow and reduces rework.

#### **MagDrive™ Servos**

High-speeds with ultra-smooth control for precision pointing and improved efficiency.

#### **Trimble RealWorks™ Survey**

Trimble RealWorks enables users to capture, extract and analyze data for a range of surveying and Spatial Imaging applications.

To learn more, visit  
[www.trimble.com/everyday](http://www.trimble.com/everyday)

**Trimble** 2007  
**DIMENSIONS**

November 5 — 7, 2007  
Mirage Hotel, Las Vegas  
[www.trimbleevents.com](http://www.trimbleevents.com)

TRIMBLE NAVIGATION LTD.  
Tel: 1.800.563.7184 Fax: 1.416.252.8675 Email: [info\\_trimble\\_canada@trimble.com](mailto:info_trimble_canada@trimble.com)  
©2007, Trimble Navigation Limited. All rights reserved. Trimble and the Globe & Triangle logo are trademarks of Trimble Navigation Limited registered in the United States Patent and Trademark Office. SUR-152

 **Trimble.**

of all members. Your Council in the upcoming year is also well prepared to debate and make decisions in the best interest of the members.

Listed below is a re-cap of some of the important issues dealt with by Council in the past year:

1. MCE issues
2. SRD issues;
3. LRA presentation to provincial caucuses and Jamie Muir, Minister of SNS & MR;
4. Association President letter to Mark Coffin, Registrar General of Land Titles;
5. Monitoring of Bills at Legislature by Russell MacKin-

non; subsequent appearance at Law Amendments Committee;

6. Attendance by President at the CCLS National Future Forum;
7. Canadian Board of Examiners for Professional Land Surveyors correspondence;
8. President's attendance at the Law Amendments Committee regarding the delineation of wetlands;
9. Two meetings with the Bar Society as an observer; commentary to the working group of the Barristers/ANSLS committee (Carl Hartlen, Derik DeWolfe, Bruce Mahar). A discussion

paper was prepared respecting parcel description questions and concerns as a result of item # 4;

10. Association finances.

In any event, our summer session is ending and, with that said, it is time to put away the bug spray and sunscreen and get down to business before the snow flies.

Staff has been busy facilitating the running of the office since my last report. Special thanks are in order to Jim Gunn and the AGM Committee for their hard work and dedication in preparing for the AGM at the Keltic Lodge. Hope to see you there!

# WE'VE GOT THE SOLUTION

## GEODESY

### MAGNETIC MARKERS

- ~ for soil
- ~ for rock or concrete
- ~ GPS marker

### PROTECTIVE COVERS

- ~ aluminium
- ~ mix
- ~ lifts

### POST

- ~ witness post
- ~ raised characters

## LEGAL SURVEY

### MARKERS

- ~ aluminium
- ~ plastic
- ~ steel
- ~ boundary
- ~ terminus type
- ~ CLS-77
- ~ CLS-69

### STATIONS

- ~ PK nails
- ~ identified washers
- ~ MAG nails

## SERVICES

- ~ installation on the site for geodesic markers
- ~ design of special markers on request
- ~ markers to fit federal and provincial standards
- ~ shipping all around the world

"ASK FOR OUR BROCHURE"

MORASSE

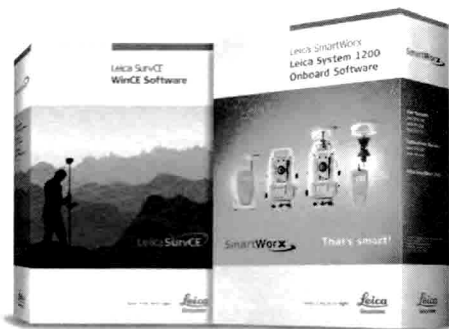
J. P. MORASSE INC. 1321, Marie-Victorin, St-Nicolas, Quebec, Canada G7A 4G4  
Tel.: (418) 831-3811 ~ 1 800 463-6866 • Fax: (418) 831-7827 ~ 1 800 463-8138  
WEB SITE: [www.morasse.com](http://www.morasse.com) • E-mail: [morasse@total.net](mailto:morasse@total.net)



# Choice is good.



**That's why Leica Geosystems offers two outstanding options for data collection: Leica SmartWorx™ or Leica SurvCE™. They'll both hit the spot.**

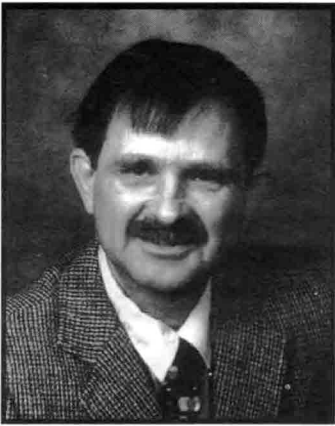


At Leica Geosystems, our job is to create tools that make you more productive and more profitable. That's why we give people who use our hardware a choice in software. Now you can choose Leica SmartWorx™, our proprietary program designed to make data collection fast and user-friendly. Or you can choose Leica SurvCE™, a special version of the software known throughout the surveying and construction industry. Both are outstanding programs designed to maximize your data collection productivity. Both offer user-friendly menus, enhanced graphics and all the features you need. So for better productivity and faster results, use the software you're most comfortable with. Because choice is good.

Visit [www.leica-geosystems.us](http://www.leica-geosystems.us) or  
call 1-800-746-3621 for more information.

## EXECUTIVE DIRECTOR'S REPORT

F.C. Hutchinson, BA, NSLS, CLS



Seasons come and seasons go. The same applies to membership figures. We lose some members through retirement and natural causes while new members are added to the ranks from our student membership. The major source of our revenue is from membership fees. The annual dues were increased for 2002 from \$670 to \$800. The membership decline from 2001 to 2007 has resulted in a loss of 36 members. This equates to a cumulative financial loss over the past 6 years of about \$112,000 while expenses have increased.

This situation was not unexpected and your Council has been trying to manage the Association's budget as well as possible. During this period we have been able to pay off the mortgage on our office building, eliminate the building share debt and accumulate a surplus of close to \$100,000. The surplus is a result of both the Survey Review Department's and the Administration's operations, with a major portion resulting from a reduced 2006 payroll for the Survey Review Department and the sale of property.

So, now comes the proposed budget for 2008. The Survey Review Department had projected a deficit for 2008; however, on September 14<sup>th</sup> your Council voted to alter the cost of fees for plans submitted to SRD. The fee as of January 1, 2008 will be \$20.50 for each plan submitted to SRD and will include 1 lot, with an additional \$10 per lot after the first lot shown on said plan. Council also amended Survey Review Department Manual of Administrative Procedures Section 6.3 by removing the words "*to reflect the actual cost of running the Survey Review Department*". The Administration operation is projecting a deficit for 2007 as well as for 2008.

Our surplus can look after the existing year's deficit but dues would need to increase by about \$150 to balance the 2008 Administration budget. As with the budget of any business there are only two controlling factors: revenue and expenses. The choice is either to increase revenue, decrease expenses or a combination of both. It is never an easy choice but one that has to be made. I would ask that all members review the budget figures closely and come to the annual meeting with your questions and suggestions. Whether you are planning to attend the annual meeting or not you are more than welcome to make enquiries of the office on any budget item.

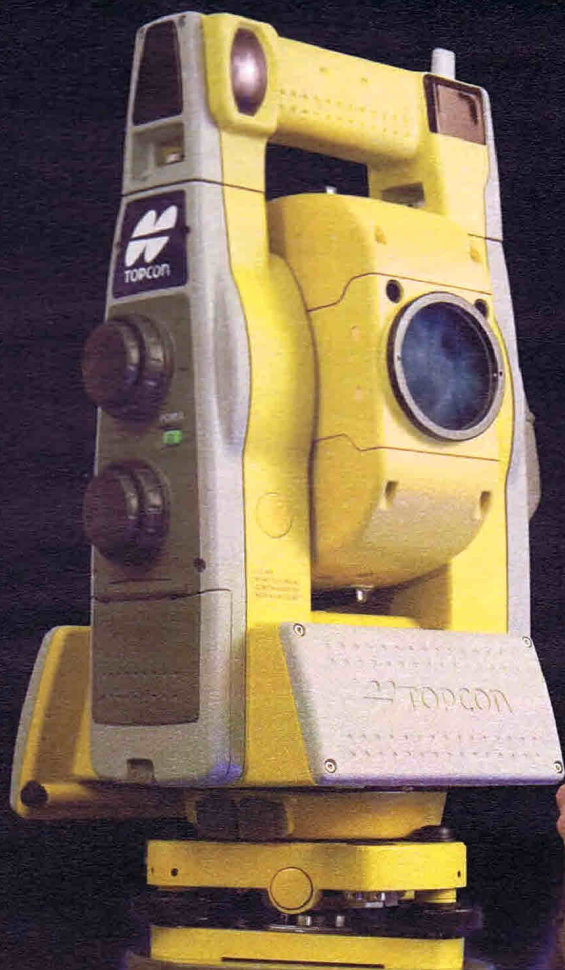
Even though the Association is a non-profit organization, it is run like any other business and bound by all the same rules and

accounting principles. It is planned that the committee structure will be more task/ project orientated in the future and the Strategic Planning Committee hopes to increase the public awareness of the business of land surveying in the coming year. Just remember that we are all ambassadors for the profession in both our business and personal lives.

The office staff continue to assist the public and members when inquiries are made. I am pleased to report that most calls from the public result in a positive experience for the caller. The office gets many calls from members about various surveying issues and I am flattered that they seek our opinion and advice. Members are free, of course, to formulate their own opinion but it often helps to talk to someone about a particular concern.

At the time of writing this article, Keltic Lodge is nearly totally booked and our block of rooms was released on September 10. Hopefully reservations were secured in time but if not, there may be a chance to be on a waiting list or to get accommodations off-site in the area. The Convention Committee has been working hard to provide an entertaining, educational and informative program for the October 11-13, 2007 meeting. The fact that one of the best golf courses in Canada is on-site is clearly a bonus. Drive carefully and see you in October in beautiful Cape Breton. ■





## Built for speed.

There's no doubt the new GPT-9000 robot is a beautiful addition to any job. But its true beauty lies in the exciting ways it will improve your productivity on every job. Paired with a powerful new field controller and the elegant new RC-3 Quicklock remote, it's the high-performance surveying package of your dreams.

Faster tracking, quicker lock  
Smarter control and communication  
Longest reflectorless  
Complete cable-free convenience

800.443.4567 [www.topconpositioning.com](http://www.topconpositioning.com)

**nw** **wade atlantic**  
an Atlantic Canadian tradition for over 40 years

Dartmouth, NS (902) 429-5002 • 1-877-256-WADE  
St. John's, NF (709) 722-8772 • 1-877-722-WADE  
Dieppe, NB (506) 862-0020 • 1-877-862-WADE  
Saint John, NB (506) 634-1820 • 1-800-838-4888

**TOPCON**  
It's time.

**TTR2007**  
SPEED ACCURACY  
TOWERS

TOPCON TECHNOLOGY ROADSHOW 2007

## SRD MANAGER'S REPORT

*by Gerry Bourbonniere, NSLS*



I am pleased to advise the membership of my return to the Survey Review Department and what I hope to accomplish. In March 2007, I submitted an application to Council for the vacant position of SRD Manager. My decision to resign in 2006 was due to personal situations which were affecting (or may have affected) my ability to properly perform the duties of the position. These no longer exist. However, another reason was one which I consider to be of a professional nature: I had encountered numerous surveys in which what I consider good surveying practices appear to have been ignored and to have caused damage.

The basic terms of reference for my current employment, which is for a period of 18 to 24 months, are as follows.

The job description as established in 2000 will be the general guideline for my term of employment. Some specific procedures are as

follows:

- Review one plan per surveyor per calendar year, of which 50% of these will include site inspections. Due to recent surgery, I am not willing to perform the site inspections by myself and Council has agreed to allow me to contract out the site inspections. However, all reports will be sent out under my signature. To cover this additional expense, a portion of my salary has been deferred to "Manager's Expenses".
- Reports will be of the nature which were provided during my previous employment.
- Requests for advice or assistance from the members will be readily addressed.
- Meet with representatives of the Department of Natural Resources who are involved with that Department's internal plan checking process to discuss mutual concerns in reviewing plans. This is to establish consistency between the DNR and SRD processes.

Most importantly, I believe it is time for the operational mandate of SRD to be reviewed. SRD commenced operation in January 1990. While most surveys appear to be generally well done, there are concerns with the procedures of some members. Because of the required "plan checking" element (the num-

ber of plans per year) of the position, I found it was impossible to really get into performing comprehensive reviews which, in my opinion, are the only manner in which to check survey practices and confirm the basis of the "pretty" picture on some plans. The increased number of site inspections is certainly beneficial in helping to see what is done, or worse - not done - on surveys. Unfortunately, they can also raise additional questions.

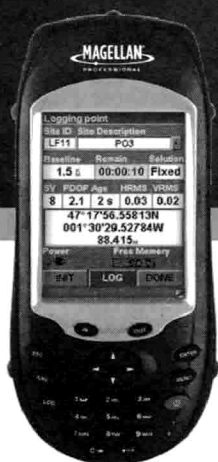
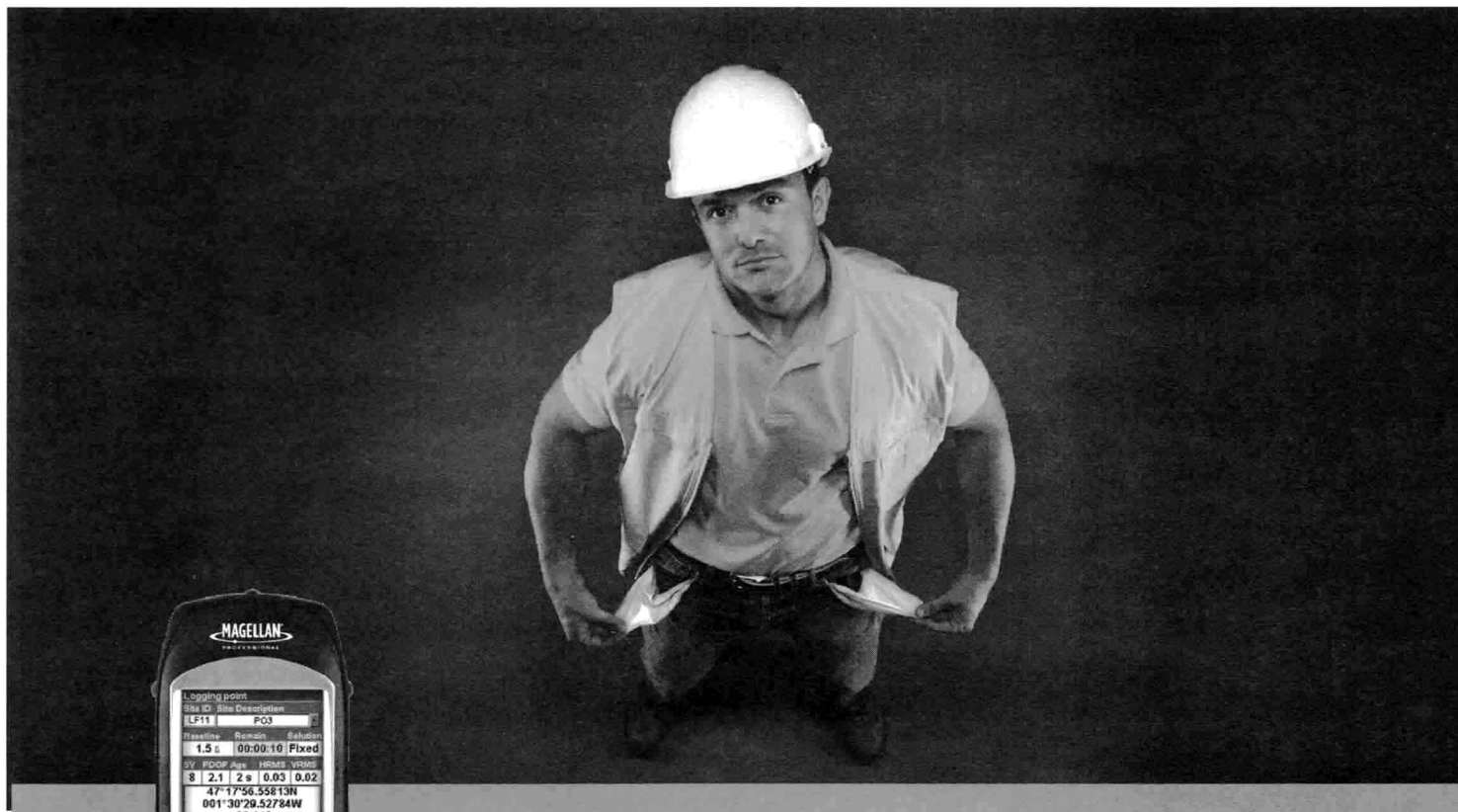
My application to Council noted these concerns and included the following proposal.

- In conjunction with the SRD Advisory Committee, prepare a presentation based on the current SRD legislation, operations, policies, and its actual method of operations. With the assistance of the Advisory Committee, this presentation will be made at all zones to obtain input from the members for developing the future direction of the Department. Unfortunately, the time spent on this presentation and its preparation could have an adverse effect on attaining the goal of reviewing one project per member per year. This fact was noted in my application.

I strongly believe that the aim and objective of SRD is to improve the standards of surveying throughout



# Don't Empty Your Pockets for RTK



## ProMark<sup>3</sup> RTK

### High Precision Without The High Cost

Real-time centimeter accuracy no longer means costly equipment. Thanks to Magellan's exclusive Blade™ technology, ProMark<sup>3</sup> RTK reliably delivers the most affordable centimeter accuracy on the market.

ProMark3 RTK includes new real-time GNSS (GPS+SBAS) capabilities in addition to its existing complete post-processing features. With ProMark3 RTK, reliability, portability, accurate surveying and mapping are now possible for surveyors who need affordable high-precision GNSS capability.

Magellan innovates once again, and gives the RTK market a kick by setting a new quality and price reference for RTK solutions. ProMark3 RTK is ideally suited for short baseline surveys, and can operate in two modes; base + rover and rover only in GPS networks.

It is easy to use and lets any surveyor put RTK to work to increase productivity.



### Features

- Accessible RTK price
- Real-time centimeter accuracy
- Complete GNSS solution
- Light and rugged system
- Short GPS learning curve

### For more information:

**Gemini Positioning Systems Ltd.**

204-148, Colonnade Rd

Ottawa (ON) K2E 7R4

Phone: 1-613-723-8865

Email: gerryb@gps1.com

<http://professional.magellangps.com>

**Contact us today to learn more about  
the ground breaking ProMark3 RTK!**

**MAGELLAN<sup>®</sup>**  
PROFESSIONAL

the province, not just the appearance of plans. I believe some of the surveying problems I have encountered are due to the lack of proper research, improper field recon-naissance and poor analysis of the documentary and field evidence. The last may be a result of the other two as it is impossible to analyse the situation properly if research and reconnaissance is incomplete.

SRD has been looked on as a “plan checking” process. I believe in the early years of the program, this was indeed necessary and the appearance and content of plans has certainly improved due to this process. However, their appearance has also been improved with the implementation of CAD in most offices. My concern now is, what is behind the picture on the drawing?

I believe the current SRD Manual of Administrative Procedures and Regulations, in conjunction with the objects of the Association as stated in Section 3(4) of the Land Surveyors Act, dictates that SRD’s role is more than plan checking.

I refer you to the entire Section 2 of the SRD Manual of Administrative Procedures, in particular the following sub-section:

**2.3 The objective of the Survey Review Department is to promote good survey standards through practice assistance and continuing education.**

Regulations 93(1) and 93(2) state:

The Survey Review Department shall monitor the quality of survey plans, ... *and survey practices of all members of the Association* ...

In its monitoring process, the Survey Review Department shall consider all applicable legislation ... *and any accepted survey practice guidelines and standards* from time to time in effect for practising land surveyors.

Regulation 97(6) states SRD *shall review and examine the survey practices of the member* to determine ... non-conformity with respect to *any legislation, standards, guidelines or practices*.

“Any legislation, standards, guidelines or practices” is common with other sections of this Regulation and the above-mentioned Regulation 93(2).

As demonstrated in the forgoing existing legislation, SRD’s role certainly appears to be far more than “plan checking”. Perhaps it is time to change its operational agenda.

At the conclusion of this fact finding process, recommendations based on the members’ thoughts and concerns will be made by the Advisory Committee and myself to Council and the Strategic Planning Committee. Whether as a response to a prepared questionnaire or otherwise, all comments will be welcomed and considered. This is your Association. How do you want this department to operate? ❧

**Land Registration  
Conversion Statistics from  
Service NS & Municipal Relations  
at September 19, 2007  
<http://gov.ns.ca/snsmr/property>**

Percentage of documents e-submitted province-wide	Number of active e-submitters
30	176
County	% of Parcels Converted to Land Titles
Annapolis	25.47
Antigonish	25.89
Cape Breton	16.47
Colchester	33.60
Cumberland	23.72
Digby	16.60
Guysborough	10.12
Halifax	37.5
Hants	35.17
Inverness	12.58
Kings	34.02
Lunenburg	18.69
Pictou	27.31
Queens	14.27
Richmond	14.75
Shelburne	16.87
Victoria	12.54
Yarmouth	16.6
Total conversions province-wide since 2003	25.85%
Total documents processed since Jan 1/2007	80,343



# Improving field crew productivity



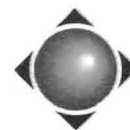
## Always in stock!

Cansel's large inventory of surveying equipment and field supplies along with fast delivery times keep you and your crew working.

**Call Cansel and reduce downtime!**

**SALES • SERVICE • RENTALS • TECHNICAL SUPPORT • TRAINING**

**1-888-222-6735 • [www.cansel.ca](http://www.cansel.ca)**



**Cansel**

Vancouver • Edmonton • Calgary • Winnipeg • Toronto • Ottawa • Montreal • Quebec • Halifax

**CANDIDATE FOR PRESIDENT****Russell MacKinnon, NSLS**

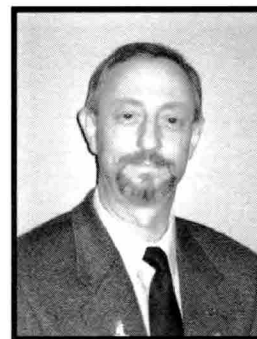
Russell was born in Grand Mira South, Cape Breton, Nova Scotia, in 1953. He presently resides in Halifax with his wife, Michele and together they have 5 children. He graduated from Riverview High School in 1972, studied political science at Dalhousie University and went on to graduate with Honours from the Nova Scotia Land Survey Institute in 1976. He received his NSLS commission in

1978 and is certified as a QP II, NS Department of Environment & Labour.

Presently, Russell is Land Use Manager for Wagner Forest NS Ltd. Previously, he managed his own business, MacKinnon Surveys and Investments Limited in Cape Breton, retiring his practice in 2006. He was first elected to the Nova Scotia House of Assembly in 1988; re-elected in 1993, 1998, 1999 and 2003. During his political career Russell served as Minister of Labour and Minister responsible for Workers' Compensation Act. Beyond these appointments, he served as Assistant Deputy Speaker 1993-1994, Deputy Speaker 2003-2005 and served on various legislative committees, including Law Amendments, Public Accounts (Chair), Economic Development (Chair), Veterans' Affairs, Resources, Community Services, Human Resources Deputy Chair and Internal Affairs.

Russell leaves a trail of 25 years of extensive community service, including but not limited to: The Nova Scotia Woodlot Owners Association; chair of the Transportation Committee of Industrial Cape Breton Board of Trade; president of District 10 Recreation Association; vice-president of the 1<sup>st</sup> Sydney River Boy Scouts; secretary of the School Trustees, Sydney River; member of Sydney Rotary Club; member of the ANSLs By-Laws, Continuing Education and Statutes Committees. He is currently a member of the Regulations Committee and Vice-President of ANSLs. Russell is an active member (director) of the Spryfield Residents Association and a member of the Royal Nova Scotia Yacht Squadron.

In addition to being an avid historian, Russell's special interests include reading, writing, gardening and hiking. Russell's motto to live by is, "To experience is to know."

**CANDIDATE FOR VICE-PRESIDENT****Raymond V. Pottier, NSLS**

Ray was born in Belleville, Yarmouth County, Nova Scotia, in 1957. He has over 28 years of experience in legal surveys, hydrographic surveys, offshore positioning and geodetic surveys. He received his Commission as a Nova Scotia Land Surveyor in 1985.

Ray began his surveying career positioning offshore oil rigs in the Beaufort Sea. Over the next 14 years he worked on a number of different survey projects that took him around the world to such varied locations as Egypt, Brazil and Australia to name a few. For the last 14 years Ray has been working on legal surveys in Nova Scotia, first in private practice and more recently as a Crown Land Surveyor for the Nova Scotia Department of Natural Resources in Tusket, Nova Scotia.

Ray has been active in the Association of Nova Scotia Land Surveyors where he has served on a number of committees. He has also served two terms as Councillor for Zone 1 and he represented the Association as Nova Scotia Director on the Canadian Council of Land Surveyors for a three-year term. Ray was also presented with the Surveyor of the Year award at the 2004 Annual General Meeting.

Ray is active in his community as well, where he is a member of the local council of the Knights of Columbus and he was President of the Pottier Family Reunion during the World Acadian Congress held in Nova Scotia in July 2004.

Ray makes his home in Belleville where he resides with his wife, Cathy and their two daughters. As an avid outdoors man much of his leisure time is spent hunting, fishing and canoeing. ■



He needs absolute precision.  
Just like you.

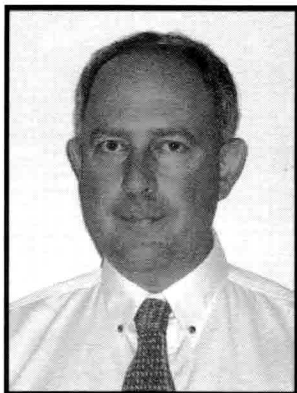
## At Leica Geosystems, precision is what we do.

The fact is, precision is what we've been doing for 200 years now. Professionals worldwide trust products and services from Leica Geosystems to help them capture, model, analyze, visualize and present spatial information. They know they can count on Leica Geosystems for great value, tremendous dependability and unsurpassed accuracy. Whether it's for surveying, civil engineering, construction, mining or transportation, our systems help them get their work done quickly and precisely. In short, we help them get their work done right. And we're ready to help you too. When you need absolute precision, turn to the people who've been innovating precision systems for 200 years — the people at Leica Geosystems. For more information call 1-800-746-3621 or visit [www.leica-geosystems.us](http://www.leica-geosystems.us).



### CANDIDATE FOR COUNCILLOR ZONE 2

**Derik R. DeWolfe, NSLS**



Derik R. DeWolfe, NSLS, was born in Annapolis Royal, Nova Scotia. He graduated from Middleton Regional High School in 1979 and from the Nova Scotia Land Survey Institute in 1981 with a diploma in Land Surveying.

Derik articulated under H. Kirk Hicks, NSLS and was commissioned as a Nova Scotia Land Surveyor in 1984.

Derik has been self-employed since 1990 and owns Derik DeWolfe Surveying Limited. His work experience has been in legal and construction surveying; he was formerly employed with D.S. Thorne & Associates in Yarmouth and with H. Kirk Hicks in Berwick.

Derik presently lives outside of Middleton in the community of Brickton, Annapolis County with his wife, Margo, and two daughters, Lauren and Jenna.

---

### Zones 3 and 5

At press time, there were no candidates nominated for Council in Zones 3 and 5.

---

### CANDIDATE FOR COUNCILLOR ZONE 6

**Robert B. Ashley, P.Eng., CLS, NSLS**



Robb was born and raised in Ontario where he graduated from high school in 1976. After travelling and working in western Canada for a year, he enrolled in the Surveying Engineering program at UNB and received his degree in 1981.

Shortly after graduation, Robb joined a large surveying and engineering firm in Toronto and worked on various projects overseas and in Ontario. Between 1983 and 1985, Robb worked on east coast offshore projects, obtained membership in APENS and received his CLS commission. He then commenced articles with Glenn Crews, NSLS and received his NSLS commission in 1988.

Once licensed, Robb created Shore Consultants Limited, and began his private practice. Robb and Glenn Crews formed North Star Surveying and Engineering Limited in 1992 with an office located in Lower Sackville.

Robb and his partner, Colleen, reside as empty nesters in Porters Lake. Both children are currently working on science degrees at Dalhousie.

**CANDIDATE FOR COUNCILLOR  
ZONE 6**

**Daniel S. Gerard, P. Eng., NSLS**



Originally from Ontario, Dan moved to Nova Scotia in 1976. He completed two years at the College of Geographic Sciences (COGS) and then obtained his B.Sc.Eng. (Surveying) from the University of New Brunswick (UNB) in 1993.

He started his career as a GPS consultant in the United States, doing GPS control networks and airborne GPS for digital orthophoto projects. Dan returned to Nova Scotia and worked with F.C. Hutchinson Surveying Limited until joining Servant, Dunbrack, McKenzie & MacDonald Ltd (SDMM) in 1995.

Dan obtained his P.Eng. in 1997, a QP1 designation in 2001, his NSLS commission in 2003, and was Certified as a Geomatics Expert (Geodesy) in 2003. He is currently a partner of SDMM Ltd.

Dan chaired the Convention Committee in 2004, is a member of the NSCRS Task Group and has just completed a two-year term as a Councillor for Zone 6.

He currently resides in Halifax with his wife, Alison, and their two children, Olivia (7) and Jacob (4).



---

**OBITUARIES**

**Ralph Hale, NSLS # 207**

**HALE, Ralph** - Ralph passed away on October 17, 2006 at the age of 85. He was born in Westville, Nova Scotia. As a young man Ralph worked as a fine instrument maker in Toronto. He served overseas during the Second World War with the Royal Naval Fleet Air Arm and was trained as both a pilot and navigator. While stationed in Portsmouth, England he met Joyce Cuttle, his future wife and partner. They were married for 52 years. He is survived by five of their eight children and 14 grandchildren. Ralph graduated from the University of New Brunswick with a bachelor of Engineering in Forestry and began a career with the Nova Scotia Department of Lands and Forests as a forester, manager and land surveyor for over 35 years. He was an active member of the First Presbyterian Church of new Glasgow as an elder and member of the men's choir. He was

also a member of the Western Star Masonic Lodge No. 50, Westville, and Queens lodge, Sherbrooke, for over 55 years. Ralph spent his later years in the Northumberland Veteran's Unit, Pictou and always had a story to tell about surveying or woods work.

### **Robin Charles Hatherley, NSLS # 258**

HATHERLEY, Robin Charles - Robin was born in Willesden Green, England in 1931 and graduated from Ealing Grammar School, Middlesex, England in 1948. After graduation he became a student topographical surveyor with the Ordnance Survey of Britain (1951-1953), the state topographical survey in Helsinki, Finland in 1953. He worked as a draftsman in Brazil in 1954 and then as a surveyor/pro prospector in Nigeria in 1955. In January 1956, Robin came to Canada with Photographic Surveys Limited in Montreal and on the DEW Line in Baffin Island. He attended the Nova Scotia Land Survey Institute (COGS) in 1959, received his NSLS and worked a season with the Canadian Hydrographic Service in 1960. Until 1966 he worked for various geophysical firms in the Middle East, North Africa, Australia and several South American countries. He then returned to Canada and worked as party chief on legal surveys in British Columbia. Robin received his Dominion Land Surveyor commission on April 14, 1972 and on June 9, 1972 he was commissioned as an Alberta Land Surveyor. In 1973 Robin returned to school at Ecole Suisse Pour Operateurs-Photogrammetres in St. Gallen, Switzerland. Following that, he worked as a photogrammetric operator in Alabama, USA and in Denmark. In 1978-1979 Robin was with the Control Surveys Section of Alberta Transportation. He moved to Grande Centre in 1979, first with K.B. Drake & Associates, in his own practice in 1982 and then in Veteran, Alberta in the mid-1980s. Robin had a keen interest in the stock market and an avid interest in stamp and foreign bank note collecting. He retired on May 1, 2002 and passed away on December 23, 2006. His career took him to nearly every continent in the world including the province of Nova Scotia.

### **Christopher Paul Masland, NSLS # 443**

MASLAND, Christopher Paul - Chris passed away in Liverpool, Nova Scotia on December 31, 2006 at the age of 65 after a battle with cancer. He was born in Wantage, England and attended school at Harrow on the Hill. In 1961 Chris moved to Nova Scotia to attend Dalhousie University. Chris received his commission as a Nova Scotia Land Surveyor in 1975 under the direction of M.H. Wadden, NSLS and R.K. Carrick, NSLS. He was in private practice in Chester from 1977 to 1981. He was Chief Surveyor at Bowater Mersey Paper Company for 20 years and retired in 2001. Chris served on the ANSLC Council, was a member of the Board of Examiners for many years and was also on the Survey Standards Committee. Chris loved to fish and spent many hours on his boat "Shark Fever", catching, tagging and releasing sharks for the Bedford Institute of Oceanography. He was survived by his wife of 37 years, Linda (Boone), who also succumbed to cancer in the summer of 2007. Our deepest sympathy is extended to their children Jennifer and Adam as well as other family members.

### **Kenneth W. Robb, NSLS # 225**

ROBB, Kenneth - Ken was born in Quebec and moved to Nova Scotia in his early years. He attended the Nova Scotia Land Survey Institute in 1956 and received his commission on February 7, 1957. He was the owner of K. W. Robb and Associates for over 40 years and was forced to cease practice due to kidney failure and ill health. Many of our existing members served some or all of their article time with Ken. He served the Association on several committees over the years and was also a member of Council. Ken worked very hard with other members on the drafting of the existing Land Surveyors Act and was passionate about his profession. He was also very interested in his community and could usually be found at most public meetings that dealt with development issues. He is survived by his partner Patsy, six children, three stepchildren, 13 grandchildren and two great-grandchildren. In his younger years he enjoyed fishing and hunting while later years saw him devote more time to his summer cottage, bird-watching and tending his gardens. Ken passed away on August 7, 2007. His funeral and reception was attended by about 30 fellow surveyors. ■



## Someone Else's Survey: Can You Trust It?

by Donald A. Wilson, LLS, PLS, RPF

As seen in Professional Surveyor Magazine, August 2007

There is no rule that states one must honor someone else's survey, other than the original survey, but previous surveys are accepted by other surveyors and others (mostly the unaware) on a regular basis for a variety of uses. Some owners have a perimeter survey by one surveyor, then ask a second surveyor to subdivide the property based on the previous perimeter survey. Naturally the client does not wish to pay again for work on the perimeter, but how can the second surveyor know if the previous survey is correct without considerable checking? In fact, that just might be why the landowner sought the second opinion as well as other possible very worrisome reasons.

Often surveys are encountered for abutting tracts, and differences, whether gross or minor, are often ignored or merely accepted on no other basis than the prior surveyor was there first. Particularly in cases where the second surveyor knows and/or respects the previous surveyor, the first work is often accepted at face value. This practice is risky at best, and, based on what various courts have stated in the following cases, is probably unprofessional, perhaps even unlawful.

The case of *Ivalis v. Harding*, 496 N.W.2d 690, 173 Wis.2d 751 (1993), had to do with a section line incorrectly located by a county surveyor. The line was originally surveyed and marked (established) between 1859 and 1863 and was erroneously located in 1915. The title documents for both parties to this action were drawn based on the 1915 survey, which parties believed to be the dividing line between government lots 8 and 9. The error was perpetuated by a surveyor in 1971. This surveyor was later found negligent for erroneously locating the correct line, despite the fact that he pointed out that other surveyors commonly relied upon the monuments set in the 1915 survey, including the opposing surveyor in this case on other occasions. The court suggested that those surveyors may also be negligent in their activities but such was irrelevant in this case.

Revisiting *Rivers v. Lozeau*, Fla. App. 5 Dist., 539 So.2d 1147 (1989), the court stated, "*The sole duty, function and power of the retracement surveyor is to locate on the ground the boundaries, corners and boundary lines established by the original survey.* The following

surveyor, rather than being the creator of the boundary line, is only its discoverer and is only that when he/she correctly locates it."

Also revisiting *Racine v. Emerson*, 85 Wis. 80, 55 N.W. 177 (1893), the highway case discussed in an earlier article, the court stated that, "the east line of the street was where the original surveyor placed it, not where it should be according to resurveys or subsequent surveys." The court made the following statement: "The fact, generally known and quite apparent in the records of courts, is that two consecutive surveys by different surveyors seldom, if ever, agree; and the greater number of surveys, the greater number of differences and disagreements will occur. (quoting *Erickson v. Turnquist*, 77 N.W.2d 740 Minn.). When two surveys disagree, the correct one cannot be determined by still another survey. It follows that resurveys are of very little use in such a case, except to confuse it." The bottom line, according to *Racine*, is that "great care must be used in reference to resurveys since surveys made by different surveyors seldom wholly agree."

Since we commonly encounter these "resurveys" and so-called retracement surveys with which we do not agree, or are in reality incorrect, of what effect are they, other than being, as the court stated in *Johnson v. Westrick*, 200 Wis. 405 (1930), "worse than useless for they only serve to confuse unless they agree with the original survey"? Previous articles and quotes taken from several of the leading cases have hinted at their lack of effect.

One case in point is *Hagerman v. Thompson*, 235 P.2d 750 (Wyo., 1951), wherein three plats were presented to the court, each purporting to depict the same mineral survey, with no two in agreement. The court stated in this case that "the purpose of a resurvey is to ascertain lines of the original survey and original boundaries and monuments as established and laid out by survey under which parties take title to land, and they cannot be bound by a resurvey not based on survey as originally made and monuments erected."

In this case the three surveys were presented to the court, which, after evaluation, said, "the three surveys in question here were resurveys, binding on no one, unless

one of these perchance should ultimately in a proper proceeding be found to be correct. Which one of these resurveys is correct is a question of fact."

Another important decision is that of *Williams v. Barnett*, 287 P.2d 789 (Cal. App., 1955). This was a situation where two parties agreed on a common boundary, which a surveyor later found in disagreement with the true line. While the parties argued that the true line was unknown to them, the court unsympathetically stated that the true line could be found by retaining a surveyor; therefore it was not unknown since the means to locate it were within reach. The court further stated that "resurveys in no way affect titles taken under a prior survey."

Both this case and the earlier case of *Myrick v. Peet*, 180 P.574 (Mont., 1919) stated that titles in reliance of erroneous surveys are void. "In the absence of a real dispute, an agreement purporting to establish the boundary between the lands of adjacent proprietors, at a line known by both to be incorrect, and the result of which if it be given effect must be to transfer to the one lands which both know do not belong to him, is without consideration and within the statute of frauds, and consequently void."

Furthermore, in *Williams*, the court stated that since the agreement was contrary to the Statute of Frauds, it was inappropriate and therefore unenforceable. It is treated both in law and in equity as a mistake, and neither party is stopped from claiming to the true line. The boundary is considered definite and certain when by survey it can be made certain from the deed.

One of the most important decisions on the subject is *U.S. v. Doyle*, 468 F.2d 633 (1972). In this case, the court recited three familiar principles: The original survey as it was actually run on the ground controls; it does not matter that the boundary was incorrect as originally established; and a precisely accurate resurvey cannot defeat ownership rights flowing from original grant and boundaries originally marked off. The court concluded with "the generally accepted rule is that a subsequent resurvey is evidence, although not conclusive evidence, of the location of the original line."

Since the sanctity of titles is of utmost importance to the court system, surveys that interfere with them do nothing except confuse or cause disruption to peaceful enjoyment. The Montana Court stated in the previously cited case of

*Myrick v. Peet* that most boundary disagreements are attributable to poor descriptions and faulty surveys: "That the subject of disputed boundaries has been a fruitful source of litigation since property rights were first recognized finds proof in the prodigious mass of literature to be found in the books upon the subject. The difficulty is not to find authority, but to select cases which best express the rule to be applied to the facts in issue. Innumerable cases involving boundary lines can be traced to loose description, faulty surveys, and excessive areas created in marking off governmental subdivisions – the bane of all tribunals called upon to reconcile discrepancies in the surveys of the public lands."

One might argue that unless a surveyor's work properly locates the title, or the boundaries as originally established, it is not a survey, technically or legally. One might then think about the contractual relationship whereby the agreement is that a survey be performed, but in reality wasn't.

Caution should be exercised before accepting any kind of evidence, and *Doyle* has stated that a resurvey is evidence. Yet it is only evidence, which can be erroneous and misleading or can be correct and supportive. The bottom line is that it is only someone else's *opinion*. Franklin Delano Roosevelt is quoted as stating, "there are as many opinions as there are experts." Bernard Baruch stated, "every man has a right to his opinion, but no man has a right to be wrong in his facts."

Bad surveys do not destroy good titles since they apparently have no effect, "other than to confuse". As an attorney-friend once stated in a seminar, "when you discover a problem and ignore it, you become part of the problem." Apparently that is just what happened in the *Ivalis* case.

.....

Don Wilson is president of Land & Boundary Consultants, Inc.; part owner of and the lead instructor in Surveyors Educational Seminars, a member of the Professional Surveyor / RedVector Dream Team providing online courses for continuing education; and a regular instructor in the University of New Hampshire Continuing Education System for 25 years. He is also co-author of several well-known texts. ■

# Vantage Point: Mom Was Right

by Wendy Lathrop, LS, CFM

As seen online at [www.TheAmericaSurveyor.com](http://www.TheAmericaSurveyor.com). The American Surveyor, Vol. 3, No. 2, March/April 2006.

In high school I was pushed into playing the lead in the Spanish class play for Humanities Day. It was not because I was so poised before a crowd – I was as terrified of the auditorium filled with hundreds of students and teachers as I still am during nearly any public presentation. (Yes, that’s right, I have stage fright.) It is true that I had participated in summer stock productions for six years, but primarily as a member of the chorus and the stage production crew, and rarely as a solo speaker. So my starring role as the mayor’s wife in eleventh grade was not for my theatrical skills. Instead, it was because I could ad lib in Spanish better than my fellow classmates; if anyone flubbed their lines I could pick up and keep going.

That is not a glowing recommendation for speaking in public, but is a fair example of how many of us feel when compelled to stand before a group for the first time. As surveyors we are before the public constantly, and we must be aware of our presentation skills.

What is a presentation, anyway? The short answer is that it is any communication for which we have the opportunity to think about what we are going to say before we say it. That covers a fairly broad spectrum. If I call a client, I’m about to make a presentation; I had time to think about what I was going to say before I picked up the phone. Hopefully I will deliver my message clearly and concisely, whether directly or to my client’s answering machine. If I need to talk with a colleague about dividing up committee work we are sharing, I have to provide enough information to my partner so we can make logical decisions and I won’t have to answer follow-up questions the next day. Did I convey my intended message effectively?

Still, many times we feel nervous when called on to

make a “formal presentation”. The reactions can be physical (rubbery legs or fidgety hands), mental (fuzzy, frozen or racing thoughts), and vocal (squeaks, stutters and uhhs). Blame it on shyness, blame it on lack of confidence. But the real reason is not fear of talking, which we do all the time, but of being on display. It is the delivery and not the content that triggers our great Fear of the Unknown.

Here is my great revelation in overcoming the shakes and nerves: Mom was right. All that nagging has finally served a purpose, much as I hate to admit it. All right, perhaps not all of it, but certain parts. And I’m sure your own parents gave you the same guidance.

**“Stand up straight!”** My posture was never the greatest, particularly in the teen years when it was way more cool to slouch around and look uninvolved. But I’ve found that standing up straight helps me to breathe better – crucial for vocal control and mental clarity. No air means no voice or brain function. Good posture also helps me to look at the people I’m talking to (see Mom’s next command).

**“Look at me!”** This was sometimes an admonition to see if I could look Mom in the eye while telling her something she did not believe, but more often so that she could tell that I was paying attention. If I make eye contact with the people I’m talking to, no matter the size of the group, I feel involved in the conversation, too. Speakers who rivet their eyes on their notes without ever looking up generally are uninvolved with their audiences, who tune them out, especially if the room is darkened to enhance a slide show.

**“Stop fidgeting!”** Hyperactivity is a lifelong trait for me, always wanting to be on the move. While growing up I played every sport, danced, and rode



my bike for hours (although that last part was often to escape my little brothers). So it was hard to unwind enough to actually sit or stand still without shifting my weight or fiddling with the zipper on my coat or playing with the cutlery on the dining room table. But all of that also presented a distraction so that I was not really paying attention to what was being said to me, and I certainly found it easier to respond when I wasn't involved in all that extra activity. The same holds true in front of a group. I concentrate better on my message and understand the questions more readily if I'm not distracted by my own movements. A little movement is fine, but no racing or pacing.

**"Don't mumble!"** Speaking clearly is not an easy thing to learn. Part of this requires opening the mouth fully, and part entails breath control. Living with a retainer for much of my adolescence did not induce me to open my mouth any wider than was barely necessary to vocalize. The sole exceptions were while singing or while playing sports, when my mouth would be wide open to let out the most sound. Later on, more breath control evolved from martial arts training. It is easier to punch or kick an opponent effectively when timing a yell (and consequent exhalation of breath) to coincide with the moment of impact. (It is also, incidentally, easier to take a kick to the mid-section if you know

how to expel all the air rapidly. I don't recommend this latter exercise as a means to improve breath control, however.) There are a number of reasons why martial artists yell when they fight, only one of which is to scare the opponent. The mere act of making the sound focuses the yell's attention on his or her action, bringing intent and commitment together. This is, incidentally, a good way to practice projection, breathing from the lower abdomen to increase volume of air and thus amplify the sound.

Finally, **"Practice makes perfect!"** Rehearsing overcomes the fear of forgetting. The more familiar I am with my intended message and presentation format, the less likely that particular fear will have a chance to buckle my knees or tighten my throat.

Thanks, Mom!

.....

*Wendy Lathrop is licensed as a Professional Land Surveyor in NJ, PA, DE and MD, and has been involved since 1974 in surveying projects ranging from construction to boundary to environment land use disputes. She is a Professional Planner in NJ, and a Certified Floodplain Manager through ASFPM.*



## **Notice of Motions for 2007 AGM**

Proposed dues increase.

***Be it resolved that the membership dues, under Section 8.2 of the by-laws, be increased from \$800 to \$950, effective January 1, 2008, with an annual adjustment as per the Consumer Price Index (CPI) effective January 1, 2009.***

*Notice of Motions continued on page 44*

## COMMITTEE REPORTS 2007

### ATLANTIC PROVINCES BOARD OF EXAMINERS FOR LAND SURVEYORS

Committee members are: John C. MacInnis, Bert Losier, Joe Harvie.

A meeting of the Board was called for January 17, 2007, to be held in conjunction with the annual meeting of the Association of New Brunswick Land Surveyors in Fredericton.

We did not have a quorum as a Newfoundland representative was not present.

We did spend the meeting time discussing the agenda items, including the future of APBELS.

With respect to the future of APBELS, it was suggested that it was time for a colloquium to be held to assess the requirements for "tomorrow's land surveyor".

APBELS arranged for the Colloquium, which was held at the Inn on the Lake in Fall River. The was well attended and many items were presented and discussed during the two days that the meeting took place.

A summary of the Colloquium will be provided to ANSLs members prior to the annual meeting in Ingonish Beach this Fall. Also at our annual meeting, a presentation will be made by or on behalf of the "new" Canadian board.

John C. MacInnis, NSLS  
Chairman for NS

### CONTINUING EDUCATION

The Continuing Education Committee did not meet during the past year. One conference call was held in July involving committee members and three other invited members, for the purpose of discussing the half day seminar for this year's AGM.

Committee members are: Gerry Bourbonniere, Mike Crant, Andrew Giles, Bob Becker, Garnet Wentzell, Cyril LeBlanc and Grant McBurney, Chair.

Grant McBurney, NSLS  
Chairman

### COMPLAINTS

Committee members:  
Glenn Crews (C)  
David Whyte  
Steve White  
David Lorimer  
Curtis Kimball

The objects of this committee are to protect the public and preserve the reputation of the surveying profession.

The committee was investigating five complaints at last year's annual report. Since that time we have received three more complaints. Overall, five complaints have been dismissed; one has been forwarded to Discipline; one is still under investigation and one is being investigated by an ad-hoc committee appointed by Council.

A review of the complaints reveal that one stemmed from a construction design and layout. Hundreds of thousands of dollars

may be spent on construction projects and a surveyor's error may cost him/her in a civil action, but an error may not be deemed to be misconduct. However, the member's actions in dealing with the error may be deemed "Professional Misconduct". Cooperation is your friend. This complaint was dismissed.

Two more complaints were based on a "failure to perform duty". What did the client ask you to do? What are you required to do? This is why members should keep notes of their conversations and instructions. Obviously, a contract is best, but even a letter to the client outlining your understanding of his instructions is very persuasive to the committee. At the very least there should be your handwritten notes of the initial contact and instructions, although these are not as compelling in your defense. A one-time client won't have the experience to document these transactions. You're the professional. You should know how to conduct these affairs. Both of these complaints were dismissed.

Finally, as always, the majority of the complaints were related to boundary definition. This committee cannot conclude whether a member's definition is correct or not; that is solely the professional's responsibility. However, we will review the file and perhaps conduct other research for ourselves, and determine if the surveyor has based his opinion on appropriate evidence. Four of these

*Continued on page 24*

CONSTELLATIONS: 2 CABLES: 0

# HiPer Lite<sup>+</sup>

*the world's first  
dual-constellation, completely  
cable-free RTK GPS+ system  
continues to outperform...*

Shut out cable hassles and run up your productivity with the Topcon HiPer Lite+.

## Dual-Constellation Tracking

Topcon HiPer Lite+ provides both GPS and GLONASS satellite tracking, providing you with more satellites and stronger solutions!

## Advanced GPS+ Technology

Exclusive Advanced Multipath Reduction (AMR) and Co-op Tracking™ help you acquire sat-lock faster and maintain it longer in difficult working environments.

## 100 Percent Cable-Free

The ultimate in convenience and simplicity. Set up faster, no box full of cables to maintain, just high-precision GPS+ positioning at work for you.

- Super-fast and easy base station setup—tripod, tribrach, HiPer Lite+—you're done!
- Cable-free rover works with Bluetooth® wireless technology equipped field controllers
- Integrated spread spectrum radio works with HiPer Lite+ and standard HiPer Lite rovers up to 2.5 miles away
- No FCC licensing requirements
- 40-channel dual-frequency GPS plus GLONASS availability
- Exclusive AMR and Co-op Tracking™ technology



# HiPer Lite<sup>+</sup>



## The original cable-free, integrated RTK GPS

system provides all the convenience of HiPer Lite+ in a lower cost single or dual-frequency GPS configuration. Contact Wade Atlantic today for details.



TOPCON TECHNOLOGY ROADSHOW 2007

**TOPCON**  
[www.topcon.com](http://www.topcon.com)

## Wade Atlantic/Topcon "Upgrade to RTK" Trade-In Program

Receive up to \$5,500 trade-in value for your old single frequency receivers (ProMark 2's, Ashtech/Sokkia Locus, Sokkia Stratus) towards the purchase of a Topcon RTK GPS system. Call today for details.



**wade atlantic**  
an Atlantic Canadian tradition for over 40 years

Dartmouth, NS (902) 429-5002 • 1-877-256-WADE  
St. John's, NF (709) 722-8772 • 1-877-722-WADE  
Dieppe, NB (506) 862-0020 • 1-877-862-WADE  
Saint John, NB (506) 634-1820 • 1-800-838-4888

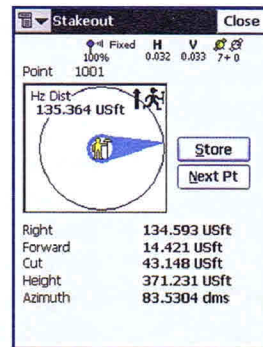


# TopSURV Field Software

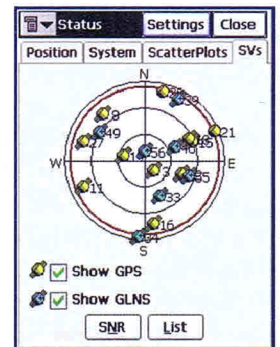
## A better way to work is just two taps away.

It can be a hard thing to do—trying something new. Seems especially true when it's software. The problem is how do you know there's not a better program that is much easier to use and more powerful?

TopSURV 6.04 will help you work faster and provide your data in ways that open new opportunities to grow your business.



Utilize TopSURV for easy stakeout.

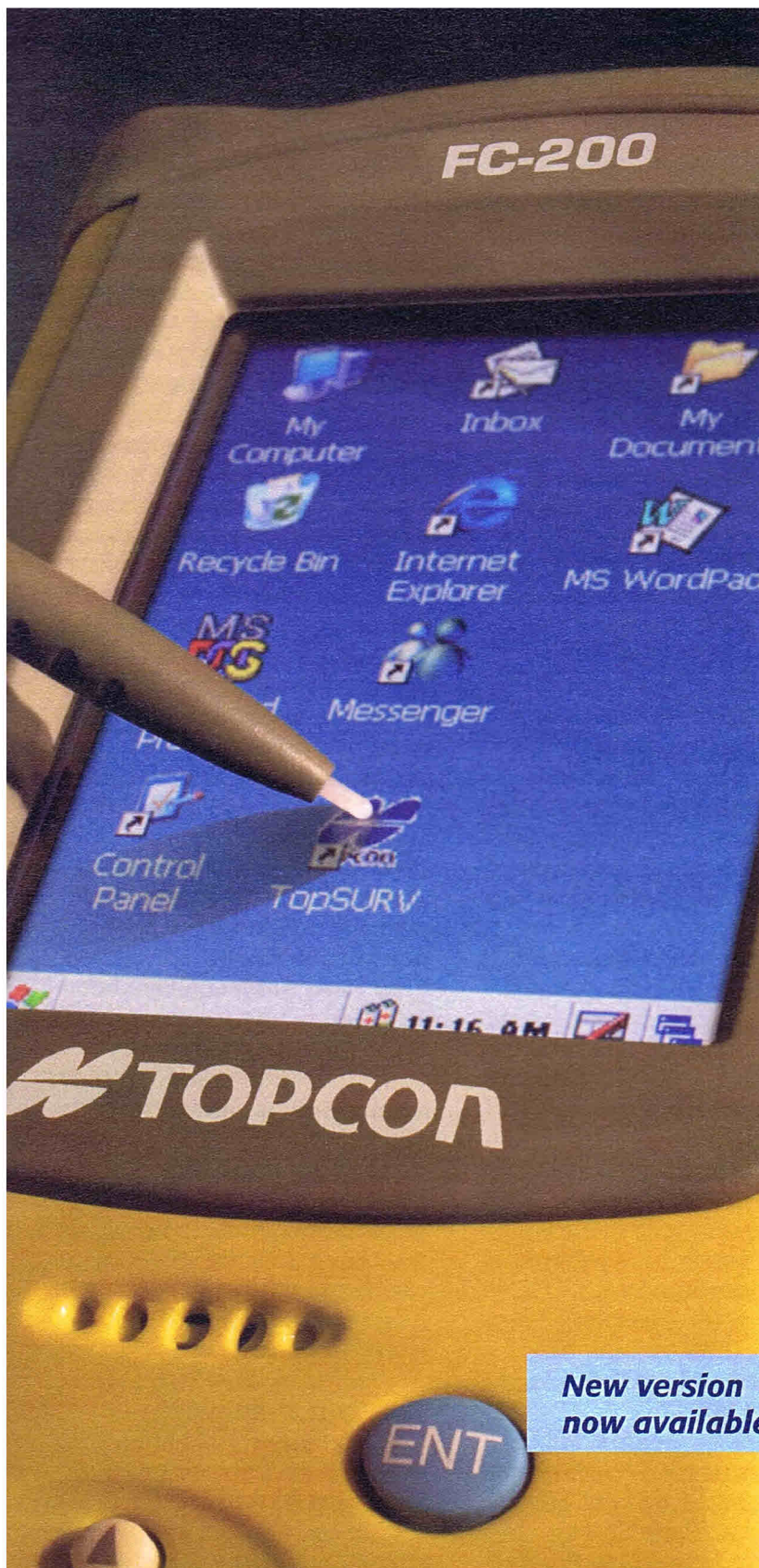


Quick glance status screen for GPS+ statistics

- The standard software configuration is designed to meet all your surveying needs including data collection and conversion, numerous stake-out options, advanced COGO, and much more.
- TopSURV easily integrates with all major office design software solutions, or use the included TopLINK PC utility to upload/download, view, edit, and convert your field measurements into a wide range of common data formats.
- Add optional application modules including Roding, Robotic, RTK GPS, GIS and the new Contractor module.
- New features include exclusive topo grid function, expanded AutoDesk import/export, multi-layer selection, and advanced digital level support.

**nw wade atlantic**  
an Atlantic Canadian tradition for over 40 years

Dartmouth, NS (902) 429-5002 • 1-877-256-WADE  
St. John's, NF (709) 722-8772 • 1-877-722-WADE  
Dieppe, NB (506) 862-0020 • 1-877-862-WADE  
Saint John, NB (506) 634-1820 • 1-800-838-4888



**New version  
now available**

Tap into the power of TopSURV to see what you've been missing. Download a demo version today.

**TOPCON**  
It's time.

*Continued from page 21*

complaints were dismissed and one was forwarded to Discipline.

As a matter of interest, this committee received ten complaints in 2004, seven complaints in 2005 and six complaints in 2006. So far, we have received three in 2007.

I must also thank the committee members for their thorough investigations and thoughtful comments.

Glenn M. Crews, NSLS  
Chairman

## DISCIPLINE

During the past year, the Discipline Committee did not meet. The Chairman consulted on several occasions with the Executive Director. No cases came before the Committee.

The members of the Committee are: Gerald A. Pottier (C), Walter Rayworth (VC), Ken Whalen (Sec.), David Wedlock, John Pope, Jim McIntosh and Joe Alcorn.

Gerald A. Pottier, NSLS  
Chairman

## LAND TITLES

The general mandate of the Land Titles Committee is to assess the impact of Registry 2000 on the public and the surveying profession and to suggest actions or policies to deal with the effects of the implementation of the Land Titles Registry.

The Land Titles Committee prepared a presentation to the three political parties detailing the

problems arising from the Land Registration Act. The presentations were made in October 2006 by members of the Executive of ANSLs along with representatives from both the Land Titles Committee and the Procedures Advisory Committee. (Note - The Procedures Advisory Committee is a committee consisting of members of the Association of Nova Scotia Land Surveyors, Nova Scotia Bar Society, Real Estate Lawyers Association of Nova Scotia and Service Nova Scotia. The Surveyor members are Derik DeWolfe, Carl Hartlen and Peter Lohnes).

Following these presentations, the Nova Scotia Barristers Society requested a joint meeting with ANSLs to discuss solutions to problems associated with Registry 2000. Representatives of NSBS and ANSLs met on January 24, 2007 where an agreement was reached that a set of guidelines be prepared jointly by NSBS and ANSLs to assist lawyers and surveyors in description preparation for PDCA submissions. Currently Carl Hartlen, Derik DeWolfe and Garth Gordon (NSBS) are preparing the working paper outlining the respective roles of lawyers and surveyors in description preparation for PDCA submissions during property migration. A draft version has been prepared and will be finalized this fall.

The members of the Land Titles Committee are: Ernie Blackburn, Valerie George, Paul Harvey, Joe Harvie, Glenn Myra, Don Parker, Dave Roberts, Stewart Setchell and Bruce Mahar.

Bruce Mahar, NSLS  
Chairman

## NS BOARD OF EXAMINERS FOR LAND SURVEYORS

Members of the NS Board of Examiners for Land Surveyors are: John MacInnis (Chair), George Sellers, Forbes Thompson, Kevin Fogarty, Sandy Cameron (DNR Appointee), Bruce Gillis (Barristers' Appointee) and an APENS appointee who has yet to be named. Paul Slaunwhite who filled that position, tendered his resignation from the Board in May 2007.

The last meeting of the Board of Examiners was held on March 7, 2007. One more is planned prior to the annual meeting. New members for the past year are Nathan Clark, NSLS # 627 and Blake Beaton, NSLS # 628. The student membership total presently stands at 24. Two students currently have their projects under review with all other requirements completed. Four other students have been assigned their survey projects but some requirements still exist for a couple of these individuals. Several of our student members will be writing examinations starting the week of October 15, 2007 for their APBELS requirements. Some members who have their APBELS certificate will write the Association's professional exams later this year.

The April 20-21, 2007 Colloquium on Educating the Next Generation of Land Surveyors in Atlantic Canada was held at Inn on the Lake, Halifax County and was well attended by Board members along with representatives from all Atlantic Provinces. A copy of the Colloquium's report has been mailed to the membership. This meeting proved to be very timely since concern was expressed about the APBELS syllabus at the

last meeting.

The Board is very pleased with the improved quality of the survey projects submitted during the last few years. Some sites are not large but present many problems for the student. The goal is to have the student prepare a plan of survey and submit it along with a complete report and all the supporting research, calculation data, field notes, photos, property description and invoice. The student is then interviewed by a Special Examining Committee made up of three land surveyors. Having to defend one's project certainly causes a certain degree of stress but most have found the experience to be very beneficial when completed. A special thank you is extended to all Board members.

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

### NSCRS TASK GROUP

Our committee has been inactive while we are waiting for the Province to implement the NSCRS together with the ANSLs recommendations.

Jeff Fee, NSLS  
Chairman

### REGULATIONS

The Committee has not been active in the past year, due in part to the implementation of the Governance Section of Strategic Planning.

The members of the committee for the past year were Russell MacKinnon (C), Tom Giovannetti, Bob Daniels, Dave

Roberts, Norval Higgins, Walter Jackson and Frank Longstaff.

Russell MacKinnon, NSLS  
Chairman

### SRD ADVISORY

We have not had any meetings to date. We have had some preliminary discussions to arrange a meeting possibly in September.

Eric Morse, NSLS  
Chairman

### STATUTES

The Statutes Committee reviews existing and proposed legislation which may have an impact on the surveying profession to insure that it complies with our Act.

As part of the Association of Nova Scotia Land Surveyors' Strategic Planning initiative, a meeting was held in November 2006 with Allan Stern, QC and Marjorie Hickey, QC and various Association members to discuss starting the review of our legislation. As part of the Governance Implementation Plan, committee structure will be reviewed with re-structuring of committees most likely.

Members of the committee are:

Michael Allison  
Russell MacKinnon  
Stewart MacPhee  
Lawrence Miller (C)

Lawrence Miller, NSLS  
Chairman

### STRATEGIC PLANNING

The three Committee Chairs of the Strategic Planning Group (Bob Daniels - Public Awareness, Dave Steeves - Governance and George Bruce - Membership) met in November 2006 and decided on its work plan for the year.

Although there was much to do, the committees tried to be realistic in setting their goals for the year.

The Public Awareness Committee's first initiative in November 2006 was to make public announcements in several newspapers of the election of the Association's new President and the Executive.

Following this, the two main goals of the Public Awareness committee were to develop a high quality website that was easy to access and use and would be of interest to the general public, other professionals and, of course, members of the Association. To achieve this, a private consulting firm was engaged to develop a contemporary template for the site. This has been completed and is now being further developed by input from eight selected members to supply the appropriate content for the various information categories. This is still being worked on and is expected to be completed in the next few months. Two committee meetings were held throughout the year and numerous telephone and e-mail communications occurred among the committee.

The second action item was the development of new promotional material (brochures, CD's and information packages) that can be used by all members in their local areas to heighten awareness of the profession and promote the "cause" to the next generation of potential land surveyors. Now that the committee is satisfied with the work of the consultant, work will soon start on the second



action item.

The Governance Committee's initial meeting was in late November 2006 and determined that its main thrust would be a review and revamp of the Act and Regulations and, if time permitted, review and reconfigure the administration of the Association. Marjorie Hickey, of the legal firm McInnes Cooper, was engaged as a consultant to guide the activities of the committee and after four meetings, the initial draft of a new Act is nearing completion. The last overhaul of the Act was in 1979 and with Marjorie's expertise and input, the new Act will include significant changes and will reflect the current legal thinking and requirements for legislative packages of the 2007 era. When the committee is satisfied with the draft, input will be sought from the members - likely through zone or special meetings.

Progress on these issues has been quite good considering the amount of material that has to be reviewed and the discussion that needs to take place.

The Membership Committee met on two occasions and also had numerous follow-up communications on several key issues. A meeting was also held

in December 2006 with the Chair of the Board of Examiners to assess the entrance requirements into the profession, impediments for student members and the current syllabus for articling students. Discussions also took place on the effectiveness of the current Examining Boards and the need to make improvements.

The committee also evaluated source material from another jurisdiction on effective business practices and feels that this is an essential issue for the Association and its members. Some basic principles and standards are required to guide members in their practices and to ensure a level playing field and professional-level remuneration. Attracting new entrants to the profession depends on how well we achieve this. Volunteer time didn't permit a completion of this work during year so it is on the agenda again for next year.

After 2 years of great contribution to the Strategic Planning effort, George Bruce is stepping down. On behalf of everyone, I offer special thanks to George for all his support and cooperation.

The joint budget for the Strategic Planning initiative was \$18,000 and most, if not all, will have been allocated by the AGM. Almost all of the expenditures

went to cover consulting costs throughout the year.

Although some great committee work was achieved throughout the year, it is clear that progress on achieving our goals will move ahead very slowly because of the limited volunteer time available from those members who agree to serve on our various committees. We are fully aware that everyone is busy with family and work and we are very appreciative of the time and energy contributed by all.

The Governance committee will be considering some strategies in dealing with this and then making recommendations to the Executive. There is much to be done as we move forward and a more aggressive approach to achieving our yearly work plans is essential. This will be a top priority for the Strategic Planning committee for the upcoming year.

I extend special thanks to our three committee chairs and their committees for their cooperation and commitment throughout the year.

Keith AuCoin, NSLS  
Strategic Planning Coordinator

=====

## Things to Think About

*As seen in The Link, Volume 30, Number 3, September 2007*

In Shakespeare's time, mattresses were secured on bed frames by ropes. When you pulled on the ropes the mattress tightened, making the bed firmer to sleep on. Hence the phrase "goodnight, sleep tight".

Intelligent people have more zinc and copper in their hair.

In English pubs, ale is ordered by pints and quarts. So in Old England when customers got unruly, the bartender would yell at them, "Mind your pints and quarts and settle down." It's where we get the phrase, "mind your p's and q's".



## AUDITORS' REPORT

TO THE PRESIDENT, COUNCIL AND  
MEMBERS OF THE ASSOCIATION  
OF NOVA SCOTIA LAND SURVEYORS

We have audited the balance sheet of The Association of Nova Scotia Land Surveyors as at December 31, 2006 and the statements of operations and accumulated operating surplus and cash flow for the year then ended. These financial statements are the responsibility of The Association of Nova Scotia Land Surveyors' management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly in all material respects, the financial position of the Association as at December 31, 2006 and the results of its operations and the cash flow for the year then ended in accordance with Canadian generally accepted accounting principles.

*Rector Colavecchia Roche*

CHARTERED ACCOUNTANTS

June 25, 2007

## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## BALANCE SHEET AS AT DECEMBER 31, 2006

	ASSETS	2006 \$	2005 \$
<b>CURRENT ASSETS</b>			
Cash		165,334	135,685
Accounts receivable -			
Administration		1,634	1,263
Survey review department		<u>9,060</u>	<u>9,470</u>
		176,028	146,418
<b>LAND AND BUILDING (note 3)</b>		<u>105,838</u>	<u>109,131</u>
		<u>281,866</u>	<u>255,549</u>
	<b>LIABILITIES</b>		
<b>CURRENT LIABILITIES</b>			
Accounts payable and accrued liabilities -			
Administration		3,561	6,593
Survey review department		-	43
Deferred revenue		20,458	26,440
Share pledge buy-back value (note 4)		<u>21,416</u>	<u>31,151</u>
		45,435	64,227
	<b>MEMBERS' EQUITY</b>		
<b>ACCUMULATED OPERATING SURPLUS</b>		<u>236,431</u>	<u>191,322</u>
		<u>281,866</u>	<u>255,549</u>

SIGNED ON BEHALF OF THE MEMBERS

*J.C. Hutchinson, BA, NSLS, CLS*  
Executive Director

THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS  
STATEMENT OF OPERATIONS AND ACCUMULATED OPERATING SURPLUS  
FOR THE YEAR ENDED DECEMBER 31, 2006

	Budget (Unaudited) 2006 \$	2006 \$	2005 \$
<b>REVENUE</b>			
General operations (schedule A)	185,810	200,927	200,246
Other operations (schedule A)	<u>28,223</u>	<u>27,281</u>	<u>26,998</u>
	<u>214,033</u>	<u>228,208</u>	<u>227,244</u>
<b>EXPENSES</b>			
Administration (schedule B)	180,682	179,365	171,110
Committees (schedule B)	6,550	1,869	7,534
Grants, levies and awards (schedule C)	13,790	13,855	14,459
Board of Examiners (schedule C)	850	538	255
Office accommodations (schedule C)	17,160	15,121	14,754
Miscellaneous (schedule C)	<u>1,800</u>	<u>2,600</u>	<u>1,910</u>
	<u>220,832</u>	<u>213,348</u>	<u>210,022</u>
OPERATING SURPLUS BEFORE THE FOLLOWING	(6,799)	14,860	17,222
GAIN ON SALE OF LAND	-	-	16,020
SURVEY REVIEW DEPARTMENT (schedule D)	<u>(6,053)</u>	<u>29,831</u>	<u>4,995</u>
OPERATING SURPLUS (DEFICIT) FOR THE YEAR	<u>( 12,852)</u>	44,691	38,237
ACCUMULATED OPERATING SURPLUS - BEGINNING OF YEAR		<u>191,322</u>	<u>150,994</u>
		236,013	189,231
VALUE OF SHARE PLEDGES DONATED DURING YEAR		<u>418</u>	<u>2,091</u>
ACCUMULATED OPERATING SURPLUS - END OF YEAR		<u>236,431</u>	<u>191,322</u>



## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## STATEMENT OF CASH FLOW

FOR THE YEAR ENDED DECEMBER 31, 2006

	2006 \$	2005 \$
<b>CASH FLOWS FROM OPERATING ACTIVITIES</b>		
Operating surplus for the year	44,691	38,237
Adjustments to operating surplus not involving cash -		
Amortization	3,293	3,431
Gain on disposal of land	<u>-</u>	<u>(16,020)</u>
	47,984	25,648
Changes in non-cash working capital -		
Decrease in accounts receivable	39	3,317
Decrease in accounts payable	(3,075)	(2,050)
Increase (Decrease) in deferred revenue	(5,982)	9,770
Decrease in share pledge buy-back value	<u>(9,735)</u>	<u>(13,239)</u>
	<u>29,231</u>	<u>23,446</u>
<b>CASH FLOWS FROM FINANCING ACTIVITIES</b>		
Proceeds from share donation	<u>418</u>	<u>2,090</u>
<b>CASH FLOWS FROM INVESTING ACTIVITIES</b>		
Proceeds on disposal of land	<u>-</u>	<u>42,818</u>
<b>INCREASE IN CASH</b>	29,649	68,354
<b>CASH - BEGINNING OF YEAR</b>	<u>135,685</u>	<u>67,331</u>
<b>CASH - END OF YEAR</b>	<u><u>165,334</u></u>	<u><u>135,685</u></u>

## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## NOTES TO FINANCIAL STATEMENTS

FOR THE YEAR ENDED DECEMBER 31, 2006

## 1. PURPOSE OF THE ORGANIZATION

The Association of Nova Scotia Land Surveyors was incorporated as a professional organization under the Land Surveyors Act of Nova Scotia to establish and maintain standards of the profession.

## 2. ACCOUNTING POLICIES

## Financial Instruments

The fair value of cash, accounts receivable, and accounts payable is approximately equal to their carrying values due to their short-term maturity date.

## Capital Expenditures

Commencing on October 1, 1993, expenditures for furniture and equipment are expensed as incurred. In common with many non-profit organizations, furniture and equipment are recorded as current expenditures in the year in which they are incurred rather than capitalized and amortized over their useful lives.

## Land and Building

The building is amortized using the declining balance method at an annual rate of 4%.

In the year of acquisition, amortization is calculated at one-half of the annual rate.

## Revenue Recognition

Revenue is reported using the deferral method.

## 3. LAND AND BUILDING

	2006			2005
	Cost \$	Accumulated amortization \$	Net \$	Net \$
Land	26,798	-	26,798	26,798
Building	<u>111,565</u>	<u>32,525</u>	<u>79,040</u>	<u>82,333</u>
	<u>138,363</u>	<u>32,525</u>	<u>105,838</u>	<u>109,131</u>

## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## NOTES TO FINANCIAL STATEMENTS

FOR THE YEAR ENDED DECEMBER 31, 2006

## 4. SHARE BUY-BACK

132 share pledges were originally issued to assist with the financing of the building. The share pledges do not bear interest and have a par value of \$250. The shares will be repurchased after December 31, 2003 at an amount calculated by dividing the December 31, 2003 appraised value of the building (\$257,000) by 660, giving a buy-back value of \$389.39 per share.

	2006	2005
	\$	\$
Value of share pledges outstanding	13,750	20,000
Increase in value	<u>7,666</u>	<u>11,151</u>
Buy-back value of share pledges outstanding	<u>21,416</u>	<u>31,151</u>

During the year 22 shares were repurchased and 3 donated.

## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## SCHEDULE OF REVENUE

## SCHEDULE A

FOR THE YEAR ENDED DECEMBER 31, 2006

	Budget (Unaudited) 2006 \$	2006 \$	2005 \$
<b>GENERAL OPERATIONS</b>			
Membership dues -			
Regular	137,600	137,485	142,000
Retired	4,800	4,800	4,680
Associate	160	320	120
Student	<u>2,000</u>	<u>1,840</u>	<u>1,845</u>
Total membership dues	144,560	144,445	148,645
Nova Scotian Surveyor	2,200	2,848	2,599
Convention receipts	14,000	24,566	19,808
Certificates of authorization	5,000	5,100	5,000
Discipline committee	1,000	—	—
Interest income	900	3,618	1,985
Miscellaneous	150	1,024	3,329
Seminars	<u>18,000</u>	<u>19,326</u>	<u>18,880</u>
	<u>185,810</u>	<u>200,927</u>	<u>200,246</u>
<b>OTHER OPERATIONS</b>			
Service charges	1,100	988	1,136
SRD Administration fee	19,123	18,540	17,896
GANS Administration fee	1,500	929	946
Rental income	<u>6,500</u>	<u>6,824</u>	<u>7,020</u>
	<u>28,223</u>	<u>27,281</u>	<u>26,998</u>



## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## SCHEDULE OF EXPENSES

## SCHEDULE B

FOR THE YEAR ENDED DECEMBER 31, 2006

	Budget (Unaudited)		
	2006	2006	2005
	\$	\$	\$
<b>ADMINISTRATION</b>			
Salary - Executive director	54,400	54,383	53,500
- Office administrator	30,500	30,490	29,577
Benefits - medical, dental and life	5,975	4,265	3,882
CPP, EI and workers' compensation	6,150	6,236	5,899
General meeting - convention	25,000	30,122	26,439
Council meetings	3,600	3,575	3,795
Zone meetings	1,000	911	1,190
Executive expenses	400	302	256
Executive director expenses	1,500	1,272	511
Staff training and education	500	-	295
Postage	4,500	3,965	4,504
Printing	500	275	187
Office supplies	3,500	4,073	3,301
Telephone, fax and internet	2,000	1,703	1,870
Equipment rental and maintenance	1,662	1,610	1,273
Equipment purchases	600	699	783
President's travel	12,500	10,922	14,035
Audit service	2,200	2,215	2,135
Legal services	5,000	100	375
Professional dues and fees	1,070	1,080	1,070
Seminars	10,000	11,106	6,800
Advertising	325	1,919	602
Nova Scotian Surveyor	5,000	4,849	5,400
Amortization	<u>2,800</u>	<u>3,293</u>	<u>3,431</u>
	<u>180,682</u>	<u>179,365</u>	<u>171,110</u>
<b>COMMITTEES</b>			
Discipline	1,000	-	-
Complaints	400	-	17
Public relations	300	250	63
Statutes and by-laws	550	-	-
Strategic planning	2,000	838	6,469
Administration review	400	190	133
Continuing education	700	61	338
Regulations	500	-	-
Land titles	500	530	239
Other	<u>200</u>	<u>-</u>	<u>275</u>
	<u>6,550</u>	<u>1,869</u>	<u>7,534</u>

## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## SCHEDULE OF EXPENSES

## SCHEDULE C

FOR THE YEAR ENDED DECEMBER 31, 2006

	Budget (Unaudited) 2006 \$	2006 \$	2005 \$
<b>GRANTS, LEVIES AND AWARDS</b>			
C.O.G.S. awards	1,600	1,600	1,600
C.C.L.S. levy	11,330	11,395	11,974
APBELS levy	<u>860</u>	<u>860</u>	<u>885</u>
	<u>13,790</u>	<u>13,855</u>	<u>14,459</u>
<b>BOARD OF EXAMINERS</b>			
N.S. Board of Examiners	450	538	57
Examinations	100	-	-
Atlantic Board	<u>300</u>	<u>-</u>	<u>198</u>
	<u>850</u>	<u>538</u>	<u>255</u>
<b>OFFICE ACCOMMODATIONS</b>			
Taxes	10,000	9,401	9,052
Insurance and bonding	2,300	2,919	2,902
Cleaning	360	-	40
Utilities	3,500	2,641	2,680
Building maintenance	<u>1,000</u>	<u>160</u>	<u>80</u>
	<u>17,160</u>	<u>15,121</u>	<u>14,754</u>
<b>MISCELLANEOUS</b>			
Interest and bank charges	200	35	202
Courier	100	171	132
GANS administration	200	359	261
Refreshments	300	213	251
Other	<u>1,000</u>	<u>1,822</u>	<u>1,064</u>
	<u>1,800</u>	<u>2,600</u>	<u>1,910</u>

## THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## STATEMENT OF SURVEY REVIEW DEPARTMENT

## SCHEDULE D

FOR THE YEAR ENDED DECEMBER 31, 2006

	Budget (Unaudited)		
	2006	2006	2005
	\$	\$	\$
REVENUE			
Stickers	<u>84,600</u>	<u>86,028</u>	<u>90,221</u>
EXPENSES			
Administration fee	19,123	18,540	17,896
Manager's salary	47,000	19,870	46,250
Assistant's salary	11,320	11,533	10,745
Benefits - medical, dental and life	2,860	1,412	1,824
CPP, EI and workers' compensation	5,000	2,626	4,245
Manager's expenses	2,000	244	1,570
Professional dues and fees	800	800	800
Office, postage, printing and courier	250	253	372
Equipment purchases	300	-	-
Equipment maintenance and rental	100	-	120
Audit service	1,000	990	950
Staff training and education	300	-	-
Interest and bank charges	100	34	26
Miscellaneous	100	-	-
Bad debts (Recovery of)	-	(295)	295
Administrative review committee	<u>400</u>	<u>190</u>	<u>133</u>
	<u>90,653</u>	<u>56,197</u>	<u>85,226</u>
OPERATING SURPLUS (DEFICIT)	<u>(6,053)</u>	<u>29,831</u>	<u>4,995</u>

# THE ASSOCIATION OF NOVA SCOTIA LAND SURVEYORS

## Proposed 2008 Budget

Approved by Council on September 14, 2006 for presentation to the membership at the 2007 AGM

### ADMINISTRATION

		2008 Budget (proposed)	2007 Budget	2007 y-end Projection
<b>REVENUE</b>				
<b>Membership Dues</b>				
Regular Members	(170 @ \$800)	\$136,000	\$136,000	\$137,945
Retired Members	(40 @ \$120)	\$4,800	\$4,680	\$4,080
Associate Members	(7 @ \$80)	\$560	\$240	\$620
Student Members	(20 @ \$80)	\$1,600	\$1,840	\$1,790
<b>Total Membership Dues</b>		<b>\$142,960</b>	<b>\$142,760</b>	<b>\$144,435</b>
Nova Scotian Surveyor		\$4,000	\$3,000	\$4,000
Convention Receipts		\$14,000	\$14,000	\$14,000
Certificates of Authorization	(51 @ \$100)	\$5,100	\$5,100	\$5,200
Continuing Education/Seminars		\$15,000	\$18,000	\$11,200
Discipline Committee	(see note 1)	\$1,000	\$1,000	\$0
Interest Income		\$4,000	\$3,500	\$4,985
Other Revenue		\$200	\$150	\$3,508
Rental Income	(see note 11)	\$8,400	\$6,800	\$5,000
<b>Sub Total</b>		<b>\$51,700</b>	<b>\$51,550</b>	<b>\$47,893</b>
<b>Other Operations</b>				
Dues Service Charge		\$1,000	\$1,000	\$833
SRD Administration Fee	(see note 2)	\$20,537	\$19,060	\$19,894
GANS Administration	(see note 3)	\$1,500	\$1,500	\$1,500
<b>Sub Total</b>		<b>\$23,037</b>	<b>\$21,560</b>	<b>\$22,227</b>
<b>Total Revenue</b>		<b><u>\$217,697</u></b>	<b><u>\$215,870</u></b>	<b><u>\$214,555</u></b>

**Note:** Council has proposed a dues increase of \$150/member. Revenue calculations do not include the increase, as approval must come from the membership. If the dues increase is approved as proposed, total administration revenue will increase by \$24,905 reducing the proposed administration deficit to (\$28,701) from (\$53,606).



**ADMINISTRATION**

		<b>2008 Budget (proposed)</b>	<b>2007 Budget</b>	<b>2007 y-end Projection</b>
<b>EXPENSES</b>				
Salary	- Executive Director	\$64,400	\$55,200	\$59,269
	- Office Administrator	\$36,185	\$31,000	\$34,655
Benefits	- Medical and Dental	\$4,900	\$4,575	\$4,850
	- CPP	\$3,700	\$3,370	\$3,532
	- EI	\$2,000	\$1,875	\$1,881
	- Life Insurance	\$2,000	\$2,000	\$0
	- Workers Compensation	\$1,300	\$1,250	\$1,025
<b>Sub Total</b>		<b>\$114,485</b>	<b>\$99,270</b>	<b>\$105,212</b>
Accounting		\$3,000	\$2,400	\$3,500
Advertising		\$2,000	\$600	\$1,900
Annual Meeting & Convention	(see note 15)	\$25,000	\$25,000	\$25,000
Council Meetings		\$3,600	\$3,600	\$2,900
Depreciation	(see note 4)	\$3,000	\$2,600	\$3,162
Equipment Rental/Maintenance	(see note 5)	\$1,800	\$1,800	\$1,800
Executive Director Expenses		\$1,500	\$1,500	\$400
Executive Expenses	(see note 6)	\$600	\$400	\$516
Legal Services	(see note 16)	\$20,000	\$5,000	\$17,000
NS Surveyor		\$5,000	\$5,400	\$4,375
Office Expense		\$3,500	\$3,500	\$3,500
Office and Computer Equipment		\$400	\$600	\$225
Postage		\$4,500	\$4,500	\$4,500
President's Travel	(see note 7)	\$16,000	\$12,500	\$16,000
Printing		\$500	\$500	\$268
Professional Dues and Fees	(see note 8)	\$1,080	\$1,080	\$1,080
Seminars		\$10,000	\$10,000	\$8,000
Staff Training		\$500	\$500	\$0
Telephone, Fax & Internet		\$1,800	\$1,800	\$1,700
Zone Meetings		\$1,500	\$1,000	\$1,800
<b>Sub Total</b>		<b>\$105,280</b>	<b>\$84,280</b>	<b>\$97,626</b>

<b>ADMINISTRATION (continued)</b>	<b>2008 Budget (proposed)</b>	<b>2007 Budget</b>	<b>2007 y-end Projection</b>
<b>Committees</b>			
Administrative Review Committee (see note 9)	\$400	\$400	\$200
By-Laws Committee	\$0	\$300	\$0
Complaints Committee	\$400	\$400	\$0
Continuing Education Committee	\$500	\$500	\$300
Discipline Committee (see note 1)	\$1,000	\$1,000	\$0
Land Titles Committee	\$500	\$500	\$300
Other Committees	\$200	\$200	\$0
Public Relations Committee	\$0	\$300	\$0
Regulations Committee	\$0	\$300	\$0
Statutes Committee	\$0	\$250	\$0
Strategic Planning Committee (see note 17)	\$13,000	\$2,000	\$500
<b>Sub Total</b>	<b>\$16,000</b>	<b>\$6,150</b>	<b>\$1,300</b>
<b>Grants, Levies and Awards</b>			
APBELS levy (170 x \$5)	\$850	\$850	\$860
CCLS levy (see note 10)	\$11,538	\$11,202	\$11,803
COGS Awards	\$2,000	\$2,000	\$2,000
<b>Sub Total</b>	<b>\$14,388</b>	<b>\$14,052</b>	<b>\$14,663</b>
<b>Boards of Examiners</b>			
Atlantic Board	\$300	\$300	\$428
Examinations	\$400	\$400	\$0
Nova Scotia Board	\$500	\$1,000	\$22
<b>Sub Total</b>	<b>\$1,200</b>	<b>\$1,700</b>	<b>\$450</b>

<b>ADMINISTRATION (continued)</b>		<b>2008 Budget (proposed)</b>	<b>2007 Budget</b>	<b>2007 y-end Projection</b>
<b>Accommodation</b>				
Building Maintenance	(see note 13)	\$1,000	\$1,000	\$68
Cleaning		\$800	\$300	\$300
Insurance		\$3,000	\$3,000	\$3,000
Taxes		\$10,000	\$9,500	\$9,833
Utilities		\$3,100	\$3,000	\$3,000
<b>Sub Total</b>		<b>\$17,900</b>	<b>\$16,800</b>	<b>\$16,201</b>
<b>Miscellaneous</b>				
Courier		\$150	\$150	\$45
GANS Expense	(see note 14)	\$400	\$200	\$490
Interest and Bank Charges		\$100	\$150	\$105
Refreshments		\$200	\$300	\$200
Other Miscellaneous Expenses	(see note 12)	\$1,200	\$1,500	\$600
Penalties & Interest		\$0	\$0	\$0
<b>Sub Total</b>		<b>\$2,050</b>	<b>\$2,300</b>	<b>\$1,440</b>
<b>Total</b>		<b><u>\$271,303</u></b>	<b><u>\$224,552</u></b>	<b><u>\$236,892</u></b>
<b>Surplus/(deficit)</b>		<b>(\$53,606)</b>	<b>(\$8,682)</b>	<b>(\$22,337)</b>

## SURVEY REVIEW DEPARTMENT 2008

### REVENUE

		2008 Budget (proposed)	2007 Budget	2007 y-end Projection
Stickers	(see SRD note 1)	\$99,125	\$66,830	\$66,625
SLC Numbers		<u>\$18,400</u>	<u>\$18,000</u>	<u>\$19,000</u>
<b>TOTAL REVENUE</b>		<b><u>\$117,525</u></b>	<b><u>\$84,830</u></b>	<b><u>\$85,625</u></b>

### EXPENSES

Accounting		\$2,300	\$1,000	\$2,000
Administration Fee (see SRD note 2)		\$20,537	\$19,060	\$19,894
Benefits	- CPP	\$2,600	\$2,350	\$500
	- EI	\$1,500	\$1,500	\$925
	- Medical & Dental	\$3,000	\$3,660	\$1,322
	- Insurance	\$1,000	\$1,000	\$0
	- Workers Comp	\$1,000	\$1,000	\$515
Courier		\$50	\$50	\$0
Equipment Rental & Maint.		\$100	\$100	\$55
Interest & Bank Charges		\$75	\$100	\$30
Manager's Expense		\$2,000	\$2,000	\$3,000
Miscellaneous		\$100	\$100	\$0
Office & Computer Equipment		\$500	\$300	\$876
Office Expense		\$200	\$200	\$75
Professional Dues and Fees (see SRD note 3)		\$800	\$800	\$0
Administrative Review Cttee (see SRD note 4)		\$400	\$400	\$200
Salary - Manager		\$54,860	\$47,000	\$23,654
Salary - SRD Assistant (see SRD note 5)		\$14,476	\$11,900	\$13,257
Staff Training		\$300	\$300	\$0
Sticker Purchases		\$0	\$0	\$0
<b>TOTAL EXPENSES:</b>		<b><u>\$105,798</u></b>	<b><u>\$92,820</u></b>	<b><u>\$66,303</u></b>
<b>NET SURPLUS/DEFICIT</b>		<b><u>\$11,727</u></b>	<b><u>(\$7,990)</u></b>	<b><u>\$19,322</u></b>



**Administration Notes:**

1. In any discipline action, only the expenses of the committee can be claimed against the member. Expenses incurred by the association for legal counsel to prosecute the member cannot be claimed.
2. The SRD Administration Fee is comprised of percentages of various administration expenses (eg. utilities, taxes, insurance, administrative assistant's salary, etc.)
3. The association office supplies up to 10 hours per month of administration support for the Geomatics Association of Nova Scotia.
4. Annual building depreciation.
5. Includes maintenance contracts for photocopier and postage system; postage meter rental; equipment repairs and maintenance.
6. Executive expenses are for travel, meals, accommodations etc. incurred by the President, Vice-President and Past President within the province of Nova Scotia to attend zone meetings, executive meetings etc.
7. President's travel is for out-of-province travel of the President or their designate to attend meetings of other associations.
8. Professional dues and fees include ANSLS dues, ACLS dues, Development Officers Associate membership, GANS dues for Executive Director.
9. The administration portion of the Administrative Review Committee expenses is part of the administration budget. The SRD portion of the Administrative Review Committee expenses is part of the SRD budget.
10. This CCLS levy is based on \$68.96 per regular member for the first 100 members, then \$66.31 each for the balance.
 

100 x 68.96 =	6,896.00
70 x 66.31 =	<u>4,641.70</u>
	11,537.70
11. Rental income includes monthly rent, portion of power and business occupancy taxes.
12. Each year a portion of the HST ITC's for the month of January are disallowed per CRA requirement. This item is included in Miscellaneous Other Expenses and is budgeted for \$ 1,200 in 2008.
13. Building maintenance is comprised of major expenses to repair and/or maintain the association office building (eg. siding, ramp, paving, snow removal, etc).
14. GANS expense is offset by GANS revenue. These are expenses incurred by ANSLS on behalf of GANS, which are invoiced twice yearly.
15. In addition to the budgeted convention expense, \$50 of each member's dues is earmarked toward payment of convention expenses. The total amount for 2008, based on the budget, is \$ 8,500 (170 x \$50).
16. Includes legal costs of \$5,000 for potential Discipline hearing(s), and legal consultation fees of \$15,000 for Strategic Planning legislation updates.
17. Includes Strategic Planning Public Relations initiative costs of \$10,000; Strategic Planning Membership initiative costs of \$2,000 and Strategic Planning travel costs of \$1,000.

**SRD Notes:**

1. The cost for plan numbers/stickers is \$20.50 for each plan and includes 1 lot, with an additional \$10 per lot after the first lot; the cost for SLC numbers is \$4 each. Plan sticker revenue is based on 3,250 plans for 2008. Statistical figures indicate an average of 2 lots per plan. The revenue calculation for plans is:
 

3,250 x \$20.50 =	\$66,625
3,250 x \$10.00 =	<u>\$32,500</u>
	\$99,125
2. The SRD Administration Fee is comprised of percentages of various expenses (eg. utilities, taxes, insurance, administrative assistant's salary, etc.). See calculation below.
3. ANSLs dues for SRD manager
4. The SRD portion of the Administrative Review Committee expense is part of the SRD budget.
5. Calculation of SRD Assistant's salary includes vacation pay and paid holidays.
6. SRD Manager's total budgeted salary is made up of \$ \$50,750 for salary and \$4,110 for contract field inspections, as directed by Council.

**Calculation of SRD administration fee for 2008 Budget:**

Rent	\$ 300 / month	\$ 3,600
Utilities	\$ 3,100 x 40%	\$ 1,240
Taxes	\$ 10,000 x 40%	\$ 4,000
Insurance	\$ 3,000 x 40%	\$ 1,200
Cleaning	\$ 800 x 40%	\$ 320
Tel, Fax & Internet	\$ 1,800 x 30%	\$ 540
Exec Asst Salary	\$ 36,185 x 20%	\$ 7,237
Postage	\$ 4,500 x 18%	\$ 810
Office Expense	\$ 3,500 x 30%	\$ 1,050
Equip Rental & Maint	\$ 1,800 x 30%	<u>\$ 540</u>
Total SRD Administration Fee:		<u>\$ 20,537</u>

## Notice of Motions for 2007 AGM

*Continued from page 20*

Proposed change to by-law 4.2 to allow non-members to serve on committees.

*Be it resolved that by-law 4.2 be amended to delete the words "of members".*

**Current by-law 4.2:**

4.2 The Council may appoint committees of members to assist it in directing and managing the affairs of the Association.

**Proposed by-law 4.2**

4.2 The Council may appoint committees to assist it in directing and managing the affairs of the Association.

---

Due to new federal requirements, annual audit costs will be increased. Time to complete the audit will also increase. Proposed change to by-law 7.1 is to allow for annual review of financial records, with an audit at the discretion of Council.

*Be it resolved that by-law 7.1 be amended by deleting the words "auditors who shall audit the books of the Association and certify the" and replacing them with the words "persons who shall review the books of the Association and prepare a".*

*Be it resolved that the following be inserted in the by-laws as by-law 7.2:*

7.2 The Council may request an audit of the books of the Association.

*Be it resolved that current by-law 7.2 be re-numbered as by-law 7.3.*

**Current by-law 7.1:**

7.1 The Council shall appoint auditors who shall audit the books of the Association and certify the financial statement to be presented to the annual meeting.

**Proposed by-law 7.1:**

7.1 The Council shall appoint persons who shall review the books of the Association and prepare a financial statement to be presented to the annual meeting.

**Add the following as by-law 7.2:**

7.2 The Council may request an audit of the books of the Association.

**Renumber current by-law 7.2 to 7.3:**

7.3 The fiscal year of the Association shall be from the 1<sup>st</sup> day of January for a period of twelve months to and including the 31<sup>st</sup> day of December.

---

Reduce cost of annual dues for Retired Members.

*Be it resolved that by-law 13.4 be amended by changing "15%" to "10%".*

**Current by-law 13.4:**

13.4 Retired members shall pay 15% of the annual "member" dues for membership.

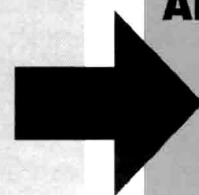
**Proposed by-law 13.4:**

Retired members shall pay 10% of the annual "member" dues for membership.

# *Improving field crew productivity*



**142 Servo  
Total Stations**



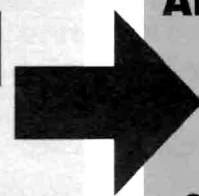
**Always in stock\***

**=**

improving field  
crew productivity



**116 Conventional  
Total Stations**



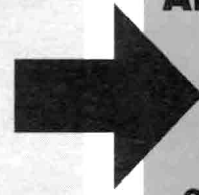
**Always in stock\***

**=**

improving field  
crew productivity



**273 RTK  
Receivers**



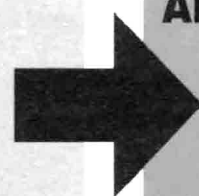
**Always in stock\***

**=**

improving field  
crew productivity



**552 Data  
Collectors**



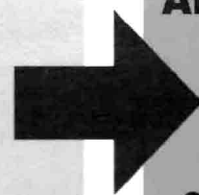
**Always in stock\***

**=**

improving field  
crew productivity



**524,326  
Rolls Flagging**



**Always in stock\***

**=**

improving field  
crew productivity

**SALES • SERVICE • RENTALS • TECHNICAL SUPPORT • TRAINING**

\*New and rental fleet quantities in stock at time of publication.

**1-888-222-6735 • [www.cansel.ca](http://www.cansel.ca)**



**Cansel**

Vancouver • Edmonton • Calgary • Winnipeg • Toronto • Ottawa • Montreal • Quebec • Halifax



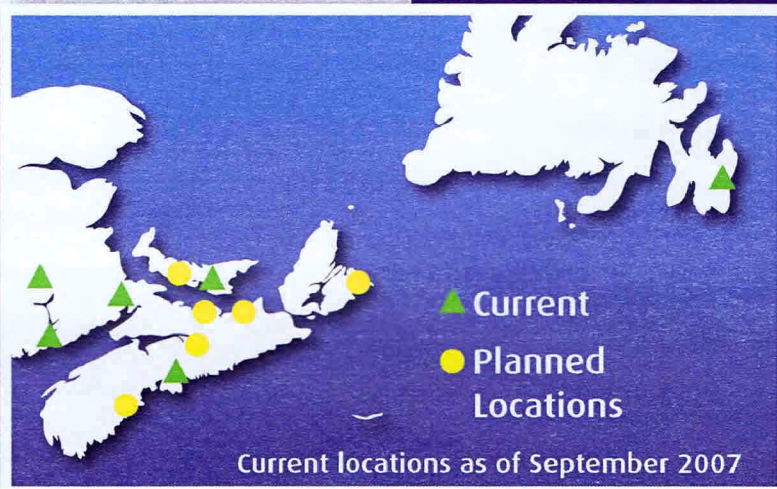
# WADE NET

## Dual Constellation RTK GPS Reference Station Network

We would like to take this opportunity to notify our customer base that we are currently moving forward with plans to construct a GPS Reference Station Network in Atlantic Canada. The main idea of using a network solution rather than a mobile base and rover is pretty simple. The positioning corrections from a network can be used by an unlimited number of users. These users can come from all walks of life from precise position people such as engineers and surveyors to GIS professionals that seek corrections for mapping grade systems. In the network environment all users gain from the utility of provided corrections of a network.

### ***Permanently installed Topcon Reference Stations and Networks provide the following features and benefits:***

- RTK data available continuously over the network coverage area thereby eliminating the need to establish temporary Reference Stations
- Elimination of potential blunders in setting up of traditional GPS Base Stations
- Increased efficiency as there is no need to have a person dedicated to setting up a temporary reference station and perhaps having to remain with it for security reasons
- Defined communications method over area of coverage
- "One-person, instant-on" RTK capabilities for multiple users
- Full Virtual Reference Station Networks can increase accuracy and precision as well as decrease initialization times
- GPS and GLONASS support provides enhanced operation in areas of satellite blockage, foliage and poor GPS only coverage, extending the Network availability
- 24 + miles working radius from a reference station
- Rover rentals available
- Call today for details



# wade atlantic

*an Atlantic Canadian tradition for over 40 years*



**GPS - GLONASS - GALILEO**

Universal Signal Tracking

**TOPCON**

[www.topconpositioning.com](http://www.topconpositioning.com)

**Dartmouth  
Nova Scotia**

**(902) 429-5002  
1-877-256-WADE**

**Dieppe  
New Brunswick**

**(506) 862-0020  
1-877-862-WADE**

**Saint John  
New Brunswick**

**(506) 634-1820  
1-800-838-4888**

**St. John's  
Newfoundland**

**(709) 722-8772  
1-877-722-WADE**