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### **Table of Contents**

- 3 Message from the President On the road...
- 7 Message from the Chief Administrative Officer Fiscal Management & Governance
- 9 Message from the Secretary Professional Entry
- 10 The Evolving Trends of Professional Self-Governance
- 13 Message from the Board of Examiners
- 15 My New Mode of Transportation
- 16 BC Land Summit
- 17 My Winter Holiday
- 22 OIP Group Luncheon
- 25 Board Members Corner

- 26 Practice Advisory Department and Surveyor General staff
  The River has Moved. What do I do?
- 31 New Commissions
- 33 Welcome baby Oscar
- 33 40 year pin







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Message from the **President** 

### On the road...

By Chris Cryderman BCLS, President

It's summer? That was fast! Seems like just yesterday Bea and I were packing up the cat for the drive back to Vancouver after the Kelowna AGM. Jasper (the cat) really enjoyed the "Pet Program" at the AGM. Me? Not so much. This program primarily took the form of a game called "Escape from the Hotel Room" (preferably undetected and late at night). I don't know if he won, but on one excursion he did manage to make it down the elevator to the lobby, and into the hands of housekeeping. Unless someone else had a pet that made it out the front door, this was probably the win.

We missed the first delegates meeting in Newfoundland owing to our annual Thai Lunar New Year vacation. The Association of Newfoundland Land Surveyors (ANLS) 66th AGM was held April 12th and 13th, at The Delta St. John's Conference Centre. Our new VP, Shauna Goertzen, graciously stepped up to represent the Association, and partook in the obligatory local rituals of kissing a cod fish, and downing screech.

We were back from Thailand for just two days, looking forward to our annual two weeks of jet lag, when it was off to Banff for the Alberta Land Surveyors Association (ALSA) 110th AGM and the start of a new experiment in compound jet lag!

The AGM was held April 25-27, 2019 at the Fairmont Banff Springs, Alberta. The 25th was the CPD program. There were three concurrent sessions going on throughout the day. I picked a series related to Canada Lands and First Nations Land Management.

The third presentation of the series was cancelled, and I had to find an alternate. Fortunately, several of the other delegates were "in-the-know" from someone, who shall be nameless, that told them the session to see was "The Mystery Session". We all staked out our territory in that room like we'd signed up for it. It turned out to be a craft beer presentation and tasting. Very educational. I have since dutifully recorded this CPD using the Reporting Tool in GeoEd. Best ... CPD ... ever.

The business meeting of the AGM was held on Friday April 26th, and Saturday April 27th. By this time the jet lag was clearly having an effect. At one point I could have sworn I saw a unicorn talking at the podium. Apparently, it was Dominique Fecteau, President of the ACLS. It turns out, there are photos. Everyone else saw a unicorn too!

The most contentious motion of the session was regarding a solution to

the issue of the terminated ministerial order regarding iron post fees. The motion was voted down, and dues were increased accordingly. At the June 27th, 2019 Council meeting it was announced that the Minister of Environment & Parks rescinded the termination of the ministerial order. Problem solved! Council has decided not to rebate any ALS dues now but will revisit the situation when considering the next budget.

The outgoing ALSA President (Bruce Clark) asked me to speak from the floor at the AGM about the current status of the implementation of the Professional Governance Act in BC, and the incoming President (Steve Yanish) discussed its potential implications in his address. Steve has since written an article for the June 2019 issue of the ALSnews entitled "The Evolving Trends of Professional Self-Governance" (https:// www.alsa.ab.ca/Portals/0/PDF/ Member Resources/ALS News/1906. *pdf?ver*=2019-07-08-153005-140). See article on page 10. It is a great summary of the developing reforms in Professional Self-Governance in Canada and it is well worth a read. There is no doubt that what has been going on in BC, with respect to this topic, is of great interest and concern to other Associations across Canada.

continued on page 5



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As a venue for a business meeting the Fairmont Banff Springs Hotel is quite spectacular. The partners program included walking tours around Banff, and the mountain environs of the Hotel. It also included an historical tour of the Hotel itself. It has quite a history. It's one of the grandest of the Canadian Pacific Hotels.

A snowstorm hit southern Alberta Saturday afternoon. The drive to Calgary, for those who left Banff Saturday, was very long. There were blizzard conditions and 90 km per hour winds all the way. Even by Sunday morning (when we left) conditions on Highway 1 were still hellish. Several inches of broken melting ice still covered the highway, and there were trucks and other vehicles everywhere. Flights were delayed. I lived in Calgary for three years while attending University and I don't remember ever seeing conditions like that. From there we flew home, worked Monday, and I flew to Halifax Tuesday for the National Surveyors' Conference and the next stage of the jet lag experiment.

The Association of Canada Land Surveyors (ACLS) AGM was held from May 1st to 3rd, 2019. The National Surveyors Conference was held at the Hotel Barrington, Halifax NS. Professional Surveyors Canada (PSC) held their business meeting, concurrently, on May 2nd.

May 1st opened with a presentation by Hal Janes and Peter Sullivan, on a workshop entitled: "Responding to Change – The Evolving Boundaries of Practice". The goal of the workshop was to open a national and pancommunity dialogue leading to articulation of a strategic vision for the management and delivery of the next generation cadastral systems to Canadians, to be presented at a national cadastre summit planned to be held in conjunction with the Working Party on Land Administration and United Nations Economic Commission for Europe.

The comprehensive and rapid-fire presentations were followed by a series of three breakout sessions where six round tables discussed the issues in terms of technology, society, and governance. The results of this session were summarized by Peter Sullivan and Jean Gagnon. The following day the Presidents' Forum met with the CCOG Cadastral Forum led by Peter and Jean to discuss the results of the workshop. It will be interesting to see the results of this effort. The business session of the AGM was held on May 2nd and 3rd. Sometime during the morning of May 3rd the jet lag experiment ended; with sleep.

The rest of May was catch-up time. Other than a BOM teleconference on the 9th, and an ERC teleconference on the 29th, it was uneventful. Things kicked into high gear again in June. June 4th the Board Executive met for the Spring PAIs. Congratulations, and welcome, to new Land Surveyors Tim Erickson, Carl Bjarnason, Jacob Wall, and Felix Chu. PAIs were followed by the first face-to-face meetings of the Board since the AGM. I say meetings because there were two: one open and one closed. It's starting to feel more natural now, after the first ones at the AGM. We experimented with decision by consensus instead of strictly following Robert Rules. It clearly can work with a small group. I am not as confident that it would be appropriate for a large AGM.

June 12-14 was the Saskatchewan Land Surveyors Association (SLSA) 109th AGM. The meeting was held at the Hotel Saskatchewan in Regina (another old Canadian Pacific Hotel).

Presentations that stood out for me in the CPD session included one given by Graeme Sandy of the National Aboriginal Land Managers Association (NALMA). His presentation was about application of the Canada Lands Survey System on Aboriginal Lands. It was an eye opener, and much appreciated and discussed, afterwards. The outgoing SLSA President (Akbar Karsan) indicated that this was what he was hoping for: to create discussion and experience different perspectives, even if they are uncomfortable.

David Dorsett, PLS, and Linda Smith, both of Montana, gave a presentation called "In Search of the Baptiste Mineral Survey". At nearly three hours (this was the shortened version, it was missing the organized crime aspect), it kept the attention of everyone in the room. It was an inspirational walk through a search for evidence, and reestablishment of, a fee simple mineral claim from the 1890s. It was a process that literally took decades!

The AGM was held on Thursday and Friday, with the usual committee and financial reports. Notices of Motion were primarily focused around raising fees to help recover from the losses resulting from the theft by the previous Executive Director. On the PSURV front there is now a coexistence agreement signed between SLSA and PSC.

The following week was the Association of Prince Edward Island Land Surveyors (APEILS) 51st AGM.

continued on page 23





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Message from the Chief Administrative Officer

### Fiscal Management & Governance

By Chad Rintoul Chief Administrative Officer

ummer finds the Association having recently reviewed second quarter financials, which revealed a trend in declining Electronic Checklist Registry (ECR) revenue. At close of Q2 ECR revenue is off budget by \$42,640 and this has provided management and the Board an opportunity to review expenses and make cuts in several areas to minimize the impact of reduced revenue. Some of these changes include a reduction in summer staffing at the ABCLS office, the cancelation of some existing and planned contract projects, and some ABCLS Committees and the Practice Advisory Department seeing elements of their budgets reduced.

Without a crystal ball budgeting for ECR revenue is always a challenge! However, as a trend has emerged during this fiscal year, management will continue to look for prudent measures to address the shortfall while ensuring that the role of the Association as regulator of the profession will not be jeopardized, and that protection of the public interest will remain our priority. With that in mind, I am pleased to report that both staff and committee members have been fully receptive to addressing these challenges.

In governance news, the Government of British Columbia recently

announced that Mr. Paul Craven will lead the new Office of the Superintendent of Professional Governance. The office will oversee the five regulatory bodies included under the Professional Governance Act, with an aim to ensure qualified professionals are acting in the public interest.

Mr. Craven brings experience to the role of superintendent, having previously served in the BC Environmental Assessment Office as Executive Director of strategic services and compliance. The superintendent's office will have the power to issue guidelines and directives to regulators to ensure compliance and enforcement of best practices and high professional and ethical standards. Staff within the Office of the Superintendent will be able to investigate potential breaches of whistleblower protections and administer penalties.

Management and the ABCLS Board continue to monitor further developments in the area of professional regulation in BC, and we continue to be proactive. For example, an additional public member has been added to the ABCLS Board effective July 8th. At the request of the ABCLS, and by order of the Lieutenant Governor in Council, Abigail Fulton has been appointed as the second public member to the ABCLS Board.

Ms. Fulton is the Executive Director of the Construction Foundation of BC based in Langford. The Foundation is dedicated to the advancement of communities across British Columbia. Ms. Fulton is a lawyer by training and has been appointed to the ABCLS Board for a term of two years.

In addition, to more closely align with the Professional Governance Act, the ABCLS Nominating Committee is developing a matrix to be used when recruiting candidates to stand for election to the Board. The matrix is anticipated to identify skill sets that the Board may currently require, as well as address matters such as geographic perspective and diversity. I anticipate that more information on this endeavour will be available during the Fall Regional Group meetings.

Finally, the Board has instructed management to investigate options to video stream future face-to-face Open Board meetings. The previous two face-to-face Board meetings have been open to ABCLS members and the public, however attendance has been limited. We anticipate streaming the meetings would be a step towards making the meetings more accessible and improved transparency. This may well be a development that falls into the 2020 budget cycle for implementation, so stay tuned! ��

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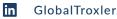
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Message from the **Secretary** 

## **Professional Entry**

By Kelly Stofer, BCLS Secretary

Inhancing the professional entry process is one of the ABCLS's strategies to ensure members practise competently and deliver quality services.

Work began this January with a review of our examinations for admission as a land surveyor. With assistance from a member task force, Cogitact Management Consulting Ltd. conducted this review and offered many recommendations to improve our examination process. In July, the Board approved policy to implement many of the recommendations with an aim to ensure examinations are relevant to current practice, fair to candidates, and provide the ABCLS with an adequate measure of competency.

New examinations will assess key competencies and knowledge areas that were established through an online survey of the membership. Extensive measures to ensure fairness are set out in the new policy. Together, the professional examination, field projects, and professional assessment interview will assess a full range of required competencies – at a level that is appropriate for a new land surveyor.

With Fall 2019 being the final sitting of the professional examinations under the current system, the Board of Examiners is working hard to implement changes for Spring 2020. I encourage all members, and especially those who supervise land surveyors in training, to read Board Policy 6.11. I also encourage land surveyors to apply for appointment to the Board of Examiners and contribute by creating exam questions, grading field projects, or participating in professional assessment interviews.

agreement and other documents will likely be expanded to clarify obligations during the term of articles. Changes being considered include: a standard 24-month term of articles in most cases, introducing qualifications for a BCLS to act as an articling Principal, a checklist of required practical training and experience in core knowledge areas, demonstration of key

I also encourage land surveyors to apply for appointment to the Board of Examiners and contribute by creating exam questions, grading field projects, or participating in professional assessment interviews.

Following another online survey, a member working group has recommended that land surveyors in training be required to participate in a professional development program based on the Getting It Right BC workshops. The Board will be looking for additional feedback this fall as it considers a potential bylaw amendment for the 2020 AGM to implement this recommendation. The working group's report, with rationale, will be circulated later this summer.

The same working group has recently turned its attention to improving the articling process. The articling

competencies to the satisfaction of a Principal prior to discharge, an end to the current requirement to file diary sheets or journals, and introducing a meeting between the land surveyor in training, his/her Principal, and the Board of Examiners during the first year of articles. The purpose of the meeting would be to ensure the parties understand their obligations to each other and to the ABCLS, and to review bylaws, policies, and procedures relating to professional entry.

I look forward to discussing these initiatives with you on the fall Board trip. ❖



# The Evolving Trends of Professional Self-Governance

By Steve Yanish, ALS President ALSA

Republished with permission from June 2019 ALS News

he fundamental purpose of professional legislation is to regulate professions in the public interest. This legislation establishes standards, procedures and controls to protect the public from incompetent or unethical providers. Moreover, professional legislation promotes quality, and balances the rights and responsibilities of the professionals, the service users, and the public.

Professional self-governance is not a right, it is a privilege but only when the public interest is served. The powers of self-governance are delegated by the government on behalf of the public through professional legislation. If the public loses faith in a self-governing profession, that profession may be subject to increased government oversight, or even lose its exclusive right to practice in their area of expertise.

A reformation to professional self-governance is occurring; it has swept through the international community and is becoming more prevalent in Canada. There are several examples of the changing professional governance landscape that may be relevant to Alberta Land Surveyors' Association (ALSA) members.

Specifically, in the September 2008
ALS News, there was an article
entitled: The End of Self-Regulation
of the Legal Profession in England.
The legal profession in England was
reportedly reformed by appointing
a new Legal Services Board to
become the single independent
oversight regulator of legal services.
It was surprising that the board was
appointed entirely by the government
and not the legal profession.

In July 2016 Quebec's professional regulatory body for engineers (Ordre des Ingénieurs du Québec or OIQ), had its power of selfregulation revoked and was placed under trusteeship of the provincial government. This change was based on a recommendation from the Office des Professions, the authority that oversees all of the province's professional regulatory bodies. In addition, the professional authority released a press statement that said "the effective delivery of activities of regulation of the profession and the financial stability of the OIQ are seriously affected, to the point of putting into question the capacity of the OIQ of carrying out its primary mission of public protection."

More recently, the British Columbia provincial government passed the Professional Governance Act that made comprehensive changes to the governance of five professional regulators for engineering and geoscience, forestry, agrology, applied biology, and applied science technology under the authority of the new oversight body called the Office of the Superintendent of Professional Governance. Although the intent of the new act was to impact the resource sector, it will clearly apply to all sectors.

The new act was based on recommendations from an independent professional reliance report prepared for the province by Mark Haddock in June 2018. His report stated that due to several "high profile environmental protection and resource management issues, including the Mount Polley Tailings Storage Facility breach and the contamination of the Hullcar Aquifer, have drawn public scrutiny and brought to light decreased public confidence in some of the professional reliance regulatory regimes." Under this new legislation several recommendations were presented:

 increase public representation and institute a merit-based nomination process for council;

- set common ethical principles;
- require competency and conflict of interest declarations from qualified professionals;
- strengthen professionals' duty to report unethical conduct of other professionals;
- provide whistle blower protections to those who report; and
- enable professional regulators to regulate firms.

Overall, the new act created significantly more government oversight and control across these professional bodies.

There are several other recent examples of professional regulatory reform in Canada. The Cayton Report from British Columbia's Professional Standards Authority regarding dental surgeons observed that they should focus on compliance, performance, and accountability. Upon acceptance of the report, the BC Ministry announced that they were setting up a steering committee to examine the recommendations pertaining to all regulated health professions in BC.

Public cynicism is the primary reason why professional regulatory reform has grown. Some of the public may view members of the professions as an exclusive club or an elitist group forming part of an established authoritarian institution.

Further erosion of public and/or government trust in professional institutions is the appearance that professional bodies are not able to separate their regulatory roles and their self-interest roles. These concerns

are clearly outlined by the Honorable Justice Cote in his address to the Alberta Land Surveyors' Association annual general meeting in April 2006 entitled Ethics and the Professional Land Surveyor. He suggested that it was critical to "keep separate"

Professional self-governance is not a right, it is a privilege but only when the public interest is served.

the functions of the professional organization which deal with things like professional discipline, breaches of the code of ethics and so on, on the one hand, and the self-interest of the profession on the other."

If we consider self-discipline from the general public's perspective, it could be viewed as a conflict of interest, protectionism, or even self-serving actions. Justice Cote provides an example of the police discipline process run and manned by the police department. Here, the concept appears contradictory and far from transparent.

With a membership as small as the ALSA it becomes an issue of significant concern. It is difficult for the public to accept that members could be completely unbiased when administering discipline because they may be acquainted and compete on projects for profit. This issue was addressed in the Cayton Report and it was recommended that the relationship between the regulator and member be one of "mutual respect and distance." The report also highlighted that "it

cannot do so if its Board is elected by registrants and partially subject to their control." Moreover, the report suggested that it was difficult to have an objective relationship where members are tied so closely financially and have personal contact via professional association. Although ALSA members believe they can act with impartiality, the public will likely always suspect some amount of prejudice.

When trying to earn public trust there are other factors to consider. Specifically: registration requirements, scope of practice, complaint resolution, continuing competency, and quality and standards. Therefore, we must examine whether we are doing enough in these areas to ensure transparency and attempt to negate the perception of self-protectionism.

Nonetheless, we should not view the movement as entirely negative. In fact it may present an opportunity for our profession to evolve so that we can meet the changing values and demands of society.

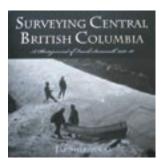
In April, 2019 at the ACLS/PSC meeting in Halifax, Hal Jans and Peter Sullivan presented a session on governance and responding to change. Their presentations raised many questions about the future roles of the professional surveyor. Firstly, how does the competency profile of the land surveyor evolve to meet the changing needs of society? Secondly, will we continue to be boundary surveyors or do we evolve into land administration and spatial data management specialists? Thirdly, how can the land surveying profession continue to meet its regulatory obligations and maintain trust in

continued on page 21

### FINANCIAL CONTRIBUTIONS TO THE BC LAND SURVEYORS FOUNDATION

The two primary objectives of the BC Land Surveyors Foundation are to create and maintain a library that houses historical and current reference material related to the surveying industry in British Columbia and financially assist students who wish to pursue careers in surveying by providing scholarships and bursaries.

The Foundation has a number of books for sale - consider purchasing them for members of your staff, local schools, or libraries. They will make a wonderful gift and at the same time, your contributions will help support the Foundation. The following books are available from the ABCLS office:

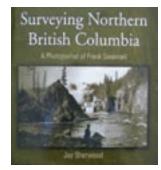


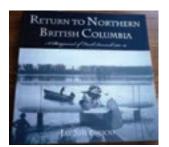
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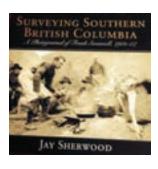


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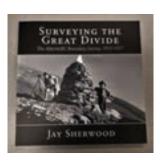




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Additional information on these books can be found on the ABCLS website: About the BCLS Foundation/Buyer's Guide

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Our thanks to you for helping to ensure the future of the land surveying profession.

### Message from the Board of Examiners



Members of the Board of Examiners took part in the student session at the AGM in Kelowna. The members shared many tips, here are some of the most relevant:

# For the Professional Assessment Interview:

- Attend Regional Group meetings. Make a point to meet the members on the interview panel.
- There may be questions with no correct answer; the panel is seeking to learn how you think.
- Arrange a practice interview to closely simulate the real thing.

### **Exam Writing Tips:**

- ➤ Do a practice test using only the materials you will have available on the day. Practice hand writing your answers and time yourself. Are the answers legible?
- Consider how to allocate your time in accordance with the marks per question.

➤ Start with the easy questions – this builds confidence to get the exam rolling.

### Study Tips:

- Connect yourself with a peer group that is working on a similar schedule.
- Have the answers in your peer group reviewed by a land surveyor – a wrong answer is a wrong answer.
- Consider any relevant current events or court cases in the ABCLS and how they might tie to the materials you are being tested on.

Following the AGM, the Board of Examiners completed the spring 2019 sitting of the professional exams and field projects. Candidates submitted a total of 62 written exams and nine field projects.

After adjudicating this round of exams and field projects, the examiners are seeing improvements in the areas noted in previous articles. These are comments from this round of exams:

- Overall, handwriting has gotten better but continues to be a theme seen across the written exams. Until the exams move to a computerbased system, the candidate is stuck with paper and pen.
- Examiners are looking for some thought from the candidate and not only the answer copied verbatim from the Act.
- Projects should provide detail in the RTK protocols used and the quality controls implemented.

With the exam review process underway as part of the strategic plan, fundamental changes to the exam process are being proposed. All candidates should pay attention to the outcomes of the review and the potential changes proposed. �



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# My New Mode of Transportation

By Robert Allen, BCLS (Life Member), CLS (Retired)

After placing an order for a 2019 Norco hybrid-electric mountain bike in the autumn of 2018, my new bike arrived in April 2019. It is a Norco Fluid VLT 1 model with RockShox front suspension, a Shimano E8000 drive unit, and a 630 WH lithium ion battery. It is cool-looking red colour and can be seen on this webpage: https://www.norco.com/bikes/mountain/e-mountain/fluid-vlt/

My old mountain bike was black and white and I wanted something a little brighter so I went with the red. I bought it through Off The Edge Bike Shop in Sechelt. I have known the owner, Gary, for a number of years and I talked last autumn about what I wanted and he knew me, my size, my riding abilities and he ordered it in for me. He let me ride it off-and-on for a week and, while it was in his shop, he wouldn't let anyone else ride it until I'd made the decision to buy or not to buy. I had made up my mind to buy it as soon as I took it out the first day but didn't actually write the cheque until about a week later. During my test rides, Gary and his Customer Satisfaction Manager, Kaitlin, were more than helpful in making sure I had everything I needed on the bike.

The Norco webpage says it is "a trail-worthy electric mountain bike that provides a boost on your riding adventures, plus all the traction and handling you need to make the most of any ride." The bike comes with 27.5-inch by 2.6-inch tires to provide



maximum grip, control, and handling performance and it also comes with 200 mm hydraulic disc brakes both front and back providing everything I would ever want in a bike. The battery is integrated into the frame as that allows for a design with a much stronger, stiffer, and lighter frame. There are four different electric assist modes: Off, Eco, Trail, and Boost. While the bike weighs 27 kg (60 pounds), it is easy enough to pedal in the off position on flat ground or even small hills. The Shimano E8000 drive unit assists you as you pedal so that when you stop pedalling, the motor assist stops.

While we might have great weather and the best biking and hiking trails in British Columbia on the Sunshine Coast, we also have many hills to navigate and that's the biggest reason I bought this bike. I live in West Sechelt at an elevation of 120 metres. From downtown Sechelt at sea level, the most direct route I can find to ride home along some streets is three km long. With only the exception of a short 150 metre long portion of downhill in the middle of the ride and the last 200 metres home, it is all

uphill. I have done that in 13 minutes and hardly worked up a sweat. Some of the grades are up to 16% and they were a real challenge on my old mountain bike – well, okay, I pushed my old bike up those steep hills.

I am very pleased with the purchase and do try to ride it as often as I can. I have a ten-kilometre loop I can ride and stay mostly on trails with some on roads that aren't too busy. While I haven't tested the battery to its fullest, I figure I can get about 100 km per charge for the type of riding that I do. The prices for electric bikes range from about \$2,500 to \$7,500 and more, mine was in the middle at a little over \$5,000 but well worth it.

My new bike fully outfitted with front and rear fenders to protect the motor (and my clothes), water bottle, tool container, dropper post for the seat, rear carrying case, over size pedals, and a kick stand.

Extra add-ons up top include: mirror, small carrying case for my Samsung smartphone, a holder that I custom made for my Garmin 64st hand held GPS, and a headlight. �

### **BC Land Summit**



Shauna Goertzen and Mark Critch

s its final task as the "Career and Public" Awareness Committee before streamlining into solely the "Career" Awareness Committee, the committee had submitted, and been accepted, to present at the BC Land Summit. Held every five years, the BC Land Summit is organized by the Appraisal Institute of Canada - BC, the BC Institute of Agrologists, the BC Society of Landscape Architects, the Planning Institute of BC, and the Real Estate Institute of BC, and is meant to promote inter-disciplinary collaboration and encourages public understanding of land issues. The ABCLS was an allied partner alongside the LTSA, BC Notaries, Social Purpose Real Estate Collaborative, Engineers and Geoscientists BC, and the Architectural Institute of BC. Being an allied partner (at no cost to the ABCLS) provided a reduced rate for attendance at the conference, a booth at the exhibition and the opportunity to give an educational seminar. The conference was very well attended by a broad spectrum of attendees, including agrologists, foresters, planners, appraisers, surveyors and other professionals. Shauna Goertzen attended the conference on behalf of the ABCLS and was rewarded with meeting CBC celebrity comedian Mark Critch.

The educational seminar was developed and presented by Brent Taylor, Shauna Goertzen and Aaron Shufletoski and was a very broad hour and a half presentation that covered a brief history of surveys in BC, different forms of monumentation, natural boundaries, strata and air space parcels and the ABCLS as regulator of BC Land Surveyors. The timeslot given for

the seminar was the last time on the last day of the conference in a room tucked away at the Westin Bayshore venue but still had a good turnout of participants similar to other seminars. As with the conference attendees, the make up of the audience was similarly a mix of various professionals. Of note were the questions received afterwards, with planners wondering about natural boundaries and when surveys are necessary and if there are any regulations or laws that trigger a redefined natural boundary in the development process. There was also interest expressed in a future workshop explaining what everything means on a registered survey plan. As this committee no longer has public awareness as its mandate, this may be of interest to regional groups. Regional groups could offer to meet with their local planners and facilitate a workshop that would greatly benefit planners.

The booth in the exhibition was run by volunteers Taylor Kagel, Mike Thomson, Roland Bircher, Gary Holme, Steve Minnie and Zuzana Fulkova, which the committee is greatly appreciative of, as while there were a multitude of booths throughout the exhibition, as usual, the booths were not very well attended by visitors.

The Career Awareness Committee would like to send a last farewell and thank you to administrator Bev Renny. She was a very valuable member of the team and was key in keeping the committee organized, the booth in the right place at the right time and just an all around great person. We wish her the best in her future endeavors. •



Arizona, Florida, the Caribbean, Mexico, etc. for their winter holidays, not me; I went alone to Iceland one day after our AGM in Kelowna. I left Vancouver on Iceland Air at 15:00 and got into Keflavik which is the international airport near Reykjavik at 06:00 the next day. After a few hours' sleep in my hotel, I went for a walk around Reykjavik in the light drizzle and a temperature of five degrees. Then after a good night's sleep, I got a ride to the Avis rental car office the next morning to pick up my car that I would use for the next week. I was soon on the road for my self-guided driving tour around the Island that I had set up before I had left home with a company called Iceland Road Trip <a href="https://www.icelandroadtrip.com">https://www.icelandroadtrip.com</a>. They were an excellent company to deal with and they bend over backwards to accommodate their clients. I had unlimited kilometres on the car, a very comfortable room each night, and a buffet breakfast each morning as I drove from town to town going counter clockwise around the Island.

I drove about 300 km per day and took in all the sights I could. There were many lava beds, old volcanoes, steam vents, geysers, mountains, waterfalls, icebergs, tunnels, and glaciers; all a geologists dream come true. I had to stop and take many photos – probably close to 700 altogether although a lot were duplicates or very similar so I am working on reducing the total number. The first night on the road, I stopped at a town called Vik, pronounced Veek,

which claims to be the wettest town in Iceland. I can attest to the truth of that statement, it was windier and wetter than any of my trips to Haida Gwaii. The next night I was in Höfn which is pronounced Hup, go figure that one. I did my first two tunnels on the second day, one about 2.5 km long and the second 5.9 km long. By this time I had done the south side of the island and was now working my way up the east side. I encountered sun, wind, clouds,

rain, hail and snow, and some days it was all on one day! Along the way I went past some old abandoned houses, some very old abandoned houses, and some really old abandoned houses as well as numerous farms. Iceland was first settled in the 900s when Leifur Eiríksson, known to us as Leif Eriksson, first arrived there. As I worked my way toward and around the north side I drove through some mountain passes which were no more than 600 metres in elevation. Generally the snow line was at about 100 metres but higher there was snow covering everything, including the road in some places.

One of the places I stayed at was Lake Myvatn, pronounced Mee-earn, but slurred into one syllable. I looked down into the valley as I approached the area; there was one lone dark coloured hill that interested me. As it turned out, my hotel was only about a ten minute drive from it and I found out there was a trail up to the top of the hill. I had the time that afternoon

### My Winter Holiday

so off I went in search of a walking adventure. It was a 20 minute walk along a relatively flat trail to the base of the hill and then another 30 minutes to the top – about 425 metres of vertical. The trail wasn't too bad but there were some very icy sections so that slowed me down a bit. The view from the top was 360° and there was a cairn on the top that I had to add a stone to. Afterwards I was back at the hotel just in time for happy hour and half-priced beers – can't beat that!

There were very few natural trees in Iceland but the Government has a program of supplying trees and paying farmers to plant them on their property. I noticed a number of cottonwood trees, mostly planted along the fence lines along the highway and driveways. There were also some spruce trees, pine trees, and lots of tamarack trees all planted in neat rows. The hope being that the trees will mature enough in 60 or 70 years to be used for lumber.

The furthest north I got by car was N 65° 58' / W 17° 22'. Coincidentally the furthest North I have been in Canada was N 65° 58' / W 134° 26' on the Peel River in the Yukon, albeit



by helicopter, but the same latitude and almost exactly 117° further west. On one of my hunting trips last fall, I hiked into N 55° 00.00' / W 125° 00.00'. I know, small things amuse small minds but to one who deals in numbers their whole career, they can be interesting statistics.

The entire trip was very interesting with something different to see every day. Some of the countryside reminded me of my drives through the Fraser Valley, the Rockies, the Alberta foothills, south eastern Alberta, and Saskatchewan.

As I went around to the west side of the island there were more mountain passes to go over and more fjords to drive around and more rivers to cross – mostly on one lane bridges

so you always had to be watching for oncoming traffic. There were hundreds of horses in various fields and lots of sheep. There were also lots of dairy cows but they are all kept in barns, at least during the winter. Each farm had a large supply of hay to feed their cows. I only saw one small herd of cows out in a field. There were some new birds – to me at least – such as whooper swans, greylag geese, redwings, northern fulmars, Eurasian oystercatchers, and Eurasian wrens. There were other familiar western Canadian birds such as starlings, ravens, mallards, red-throated loons, tufted ducks, and ruddy turnstones. I also saw about 100 reindeer and the tracks of two foxes but that was it for wildlife.

As I got closer to Reykjavik I had my fourth tunnel to go through but rather







than going through a mountain, this one went under a fjord and it was the longest at just over 6 km. These types of things are often described as marvels of engineering. Well, in my mind, nothing could be further from the truth. They are marvels of surveying and this one was no exception! Someone had to choose the starting point and the end point and then do a profile of the ground, including the bottom of the fjord, following the proposed route that had to be surveyed. This was no ordinary tunnel; there were numerous tangents, spiral curves, simple curves, compound curves, and vertical curves. I would not have wanted to have been the surveyor laying out that tunnel with its intricate design. It was very large in height and width - at least twice the cross section of any of the tunnels in the Fraser Canyon. I was running short of time that day otherwise I would have done the tunnel three or four times to get an even better idea of its construction. I

think that tunnel was the highlight of the trip for me – probably because I could relate to the surveying involved. Although I have not done any tunnel work myself, I did work on one route survey in 1967 for the Department of Highways. That was the determination of and the location for, the centre-line of Highway 4 alongside Sprout Lake a short distance west of Port Alberni.

I stayed in hotels and guesthouses along the way, all previously arranged for by Iceland Road Trip as noted above. There are many guesthouses all built to take advantage of the increasing tourist trade and most are built on farms. They ranged in size and shape from small cabins to eightplexes. On my last night on the road, I stayed in a guesthouse on a working dairy farm; they had a dining area that was open to the public so I ate my supper there. I had a rib-eye steak from one of their own cattle. All the meals I had were excellent and this one was exceptionally good. Everyone I spoke to spoke excellent English so communication was not a problem. A few things took a bit of getting used to though. All the gas stations were self-serve but the way you paid at them were different. All the light switches were the reversal of ours – to turn the switches on; you moved them down whereas ours, you move them up. Their electricity is 220 volts whereas ours is 110 volts but that is something I was aware of before I left home. I just had to have a plug converter that converted our plug type to theirs.

On my last day on the road, April 1st, I went to see the two-tiered Gullfos Waterfall that reminded me of Niagara Falls although it wasn't nearly as big. The first drop was 11 metres and the second drop was 20 metres but impressive nonetheless. Later I walked around the rim and down into a thousand year old volcano. Near the end of the day and the end of my trip, I drove past one of Iceland's iconic tourist locations,



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### My Winter Holiday



Gullfoss Waterall

the Blue Lagoon. One more night in Reykjavik and it was off for home the next day. It was a terrific trip and one I would recommend to anyone. The next time I go, I will go in September to experience a different season and to see some of the sights I didn't get to see on this trip and also revisit some of them. ��



Looking into the 1000 year old volcano.



Mid-Atlantic Ridge is actually a rift where the North American Plate is moving westward and the Eurasian Plate is moving eastward. This is in Pingvellir (Thingvellir) National Park

# The Evolving Trends of Professional Self-Governance

continued from 11

society given its demographic profile and jurisdictional structure? Lastly, should we move towards a national or regional collaborative approach to the administration of practice review, complaints and discipline, and continuing profession development? In summary, these are all relevant and important questions that must be considered when attempting to understand the changing perception of professional governance. Therefore, I urge ALSA members to approach the issue with an open mind and a creative thought process.

Council identified the issue of professional governance as one of its top strategic priorities. In the next six months, Council will gather information about professional governance to determine what action should be considered. As such, we must examine how we address discipline, qualify new members, ensure competency, and create standards to adapt to the changing needs of society. Most importantly, we must maintain and develop an open and honest dialog with the government and industry to ensure that we have a seat at the table. As former APEGBC President Dr. Michael Wrinch once said: "Self-regulation is a privilege, not a right, and it is incumbent on us to remain vigilant and ensure that we are acting to fully deliver on our duty to protect the public." 💠

# **OIP Group** Luncheon

By Wayne Griffith BCLS (Ret) CLS (Ret)

The OIP Group met at Ricky's All Day Grill in Surrey for the spring luncheon on Monday, May 6, 2019. There were 19 surveyors in attendance along with two guests. Those surveyors attending were Bill Chapman, Brian Brown, Clare Hobbs, Dai Yates, Dave Dyck, Dave Liddle, George Fenning, John Henderson, John Nash, Keith Errington, Martin Schulze, Mike Thomson, Neil Bennett, Ralph Turner, Rick Clendenning, Robert Allen, Wayne Griffith, Tom Tryon, and Henry Aldridge. The two guests were Henry's wife Mrs. Alice Aldridge and his daughter Cynthia Aldridge-Marston.

Some of our regular members were unable to attend due to prior commitments. Ron Scobbie was at his place on Hornby Island for the week and Alan Olson and Chris James had other matters to attend to. Stan Nickel was unable to attend due to some serious health concerns but all four fellows send greetings and hope to make the next luncheon.

The meeting got underway with Wayne introducing Henry Aldridge. Henry has quite a surveying family; both his daughter, Shannon and granddaughter, Connie are BC Land Surveyors. Henry was accompanied by his wife Alice and daughter Cynthia Aldridge-Marston. Cynthia is the wife of Greg Marston, BCLS. It has been sometime since Henry has been able to attend a luncheon and it was nice to see him up and about. Henry and his



Rick Clendenning BCLS 518 (L) welcomes Henry Aldridge BCLS 459 (R)



The Class of 82: Left to Right: Brian Brown BCLS 623, Martin Schulze BCLS 620 and Dai Yates BCLS 618

wife are now residing in a retirement home in White Rock and the luncheon was a nice break. Everyone had a wonderful time and we hope to see more of Henry and his family at future luncheons.

We had one new member in attendance and that was Tom Tryon. Tom is now retired and lives in Bowser where his favourite pastimes are fishing and travelling. Prior to the luncheon Tom had just returned from an eight week holiday in Europe

spending six weeks in Portugal. When Tom is not fishing or travelling, he volunteers with a trail maintenance group on the island. Tom is quite adept at getting around and was able to use public transportation to get to the luncheon. This involved scheduling buses, ferry services and sky train to get to Ricky's in time for the 11:30 lunch. Now that's impressive as well as leaving a low carbon footprint plus beating the high price of gasoline.

Following Tom, Robert Allen shared

continued from 5

his recent experiences travelling in Iceland. Robert was particularly impressed with the surveying involved in three tunnels that he passed through during his travels around Iceland. Ralph Turner and Keith Errington both contributed to the tale of the tunnels and this brings me to this interesting piece of trivia. The worlds longest and deepest train tunnel is the Gotthard Tunnel in Switzerland which is 35 miles long. Tom Tryon added that he'd experienced passing through this tunnel on one of his European trips.

Once the tunnel chatter was finished, we all got down to finishing our lunch and some serious table chatter. It was amazing how fast the two hour luncheon went and it was soon time to say our goodbyes.

It was nice to see Brian Brown returning to the luncheon and now that his Board duties are over he plans on becoming a regular. Mike Thomson was also in attendance, this



Tom Tryon, BCLS, CLS commissioned BCLS 556 in 1977

was Mike's first luncheon as our retired Surveyor General. It was a fluke that I noticed that Brian, Martin and Dai were all commissioned in 1982 but the luncheons allow old classmates and friends to re-acquaint so come on out.

Our next luncheon will be on Monday, September 9, 2019 at Ricky's All Day Grill located in the Evergreen Mall at 8958 - 152nd Street., Surrey. 4



Bill Chapman (R) Welcoming Mrs. Alice Aldridge (centre) and Cynthia Aldridge-Marston (L)

It was held at the Rodd Brudenell River Resort in Cardigan, PEI. "Don't bring a suit! The meeting only lasts the morning, and then there's golf, and a lobster boil", emailed Tony Inman the President of APEILS. Oh, this sounds like the way to end a road trip! The relaxed, and intimate (everyone fit around one big table) atmosphere was quite conducive to discussion. It was more like an expanded Board meeting. Under New Business there was an open forum and discussion on the evolution of Professional Self-Governance. The Presidents' Forum had ended on this topic the previous day, as well. It's clearly not going away anytime soon.

The Partners program included a tour of Orwell Corner Historic Village, and a scenic Zumba class. At the Village, Bea passed on milking a goat, but managed to do some blacksmithing: forging a fancy hook and shaping it on an anvil.

Planning for the 2020 AGM in Vancouver is well under way. The partners program is largely set up. The CPD Committee is hard at work preparing an engaging program. The Board is working through preparation of Notices of Motion and other items for the business session. I hope you all enjoy what's left of your summer. The next wave of road trips starts in earnest in September. I look forward to seeing everyone at the Fall Regional Group Meetings. �



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# **Board Members Corner**

Submitted by Dave Swaile, BCLS, CLS

e land surveyors are used to playing a few different roles (i.e., "wearing different hats") from time to time. We impartially maintain the survey fabric of the province, while perhaps taking a bit of an advocate role in representing our client on something like a subdivision application. We maintain the confidentiality of our clients' projects, while freely sharing our boundary evidence with professional colleagues to get to the right boundary decision.

In my nine years with the LTSA, I'm tasked with wearing quite a number of additional hats: statutory decision maker; agent for the Crown; sounding board and dispenser of advice to land surveyors and provincial staff; LTSA Liaison to ABCLS committees, to name a few.

Now that I'm also on the ABCLS Board of Management, my hat collection continues to grow. I thought it might be interesting (enlightening?) to write about the hats worn by my board colleagues, and the unique role I find myself in.

I am not an LTSA representative on the ABCLS board; rather, I am a board member who happens to be an employee of the LTSA. To me this is a very important distinction. My fellow board members are very aware that I am not to be put in a position around the board table of speaking for the LTSA. Certainly, I do have some specialized knowledge because of my position that sometimes brings additional context to board discussions, but I am in no way there to represent the LTSA's interests. I try to be mindful of the various discussions and consider whether I should recuse myself, or abstain from voting, on items that could be perceived as a conflict with my position at the LTSA.

All Board Liaisons to ABCLS committees wear a unique hat: we are non-voting members responsible for being the conduit for information to and from the board. I've tended to be someone who likes to be an active participant in the discussions on committees, despite my Board Liaison role and non-voting status. Other board members may choose to play more of an observer role on their committees, which is fine too.

I've just taken on the role of Board Liaison to the Continuing Professional Development Committee, and I look forward to supporting the great work this committee does.

I have a very unique – perhaps complicated - role on the Survey Rules Committee (SRC). With the recent introduction of the Survey and Plan Rules and the corresponding Survey Rule Change Request procedure, my position as Senior Deputy Surveyor General with the LTSA means that I am a member of the committee but I have no Board Liaison role to play; Mark Mason capably wears the board hat here.

Upon receipt of a rule change request and long before it makes its way to the SRC, my first task is to work with the Practice Advisory Manager at an early stage to gather and provide feedback as appropriate, depending on the nature of the rule change.

If the rule change is deemed by the Practice Advisory Manager as worthy to proceed to the committee, I am free to actively participate in committee discussions but I do not speak on behalf of the Surveyor General at the committee level.

We have not had a rule change request make its way to the board since the new procedure came into force, but I'll have an interesting decision to make when the first one does. As a board member who also plays a central role in the rule change request process, I expect that I will likely abstain from voting on any board decision for a rule change; and I may sometimes need to consider, depending on the nature of the rule change, whether I recuse myself from the discussion completely.

Despite my vast and growing collection of hats, I find the involvement in both the LTSA and the ABCLS board very rewarding and challenging; although I do sometimes wish I could trade all the hats in for a simple, well-worn ball cap and survey vest and just go cut line and turn some angles. �

### **Practice Advisory Department and Surveyor General staff**

### The River has Moved. What do I do?

By Jeff Beddoes BCLS (N/P), (CLS ret.)

Statutory right of way plans that cross both private land and Crown owned bodies of water where natural boundaries do not agree (or, The river has moved. What do I do?)

The following document was drafted by Jeff Beddoes BCLS (N/P), (CLS ret.), with input from Land Title staff, in developing a procedure to address the situation where a statutory right of way plan is being surveyed across a titled parcel and across a Crown-owned creek which runs through the parcel, where the present location of the creek materially differs from its location according to the plan or document upon which title is based. Rule 5-2 of the Survey and Plan Rules require that such a discrepancy is dealt with.

Although the procedure assumes a situation where the creek has actually changed location through lawful accretive and erosive forces; the same procedure would be available in a "natural boundary adjustment" scenario, where the creek remains where it always has been but was incorrectly depicted on the title-defining plan or document. Of course if the water course has moved suddenly, then the title boundaries likely have not shifted location and the guidance contained in this article is likely not applicable.

This is being published in the Link to provide guidance to members on how they may be able to deal with such a situation. Members are welcome to contact the Practice Advisory Department or Surveyor General staff, to discuss their particular project.

Respectfully submitted, Practice Advisory Department and Surveyor General staff

The following scenario describes both the problem being addressed as well as a solution.

District Lot 1 was granted by the Province in 1950 to Mr. Smith. The tracing attached to the Crown grant shows the area of DL 1 that was granted in a red wash, and a river which was not granted in a blue wash, as shown on Sketch A.

Since 1950, the river has moved slowly to the location shown on the Sketch B. And now, a utility company has strung a new power line across DL 1 as shown on the sketch and wants SRW tenure.

In accordance with common law. today Mr. Smith continues to own all of DL 1 above the natural boundary and the Crown continues to own the river, even though the location of the river within DL 1 has changed considerably.

The change in the location of the river creates a conflict with the land title records. The land title office is in the position where they can only accept

an SRW charge granted by Mr. Smith over the land that their records show he owns. In other words, without some extra work (described below), the land title office can only register an SRW charge for the titled portion of DL 1 as that titled portion was defined on the 1950 Crown grant. Referring to the numbered areas on the sketch above, the land title office can only accept an SRW charge granted by Mr. Smith over Areas 1, 2, 3 and 5.

Further, the land title office can only register an SRW charge from the Crown over what their records indicate to be Crown land, being Area 4 on the attached sketch.

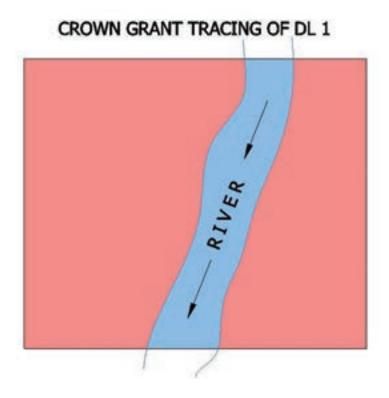
This of course is problematic because Mr. Smith does not own Area 2 and does own Area 4, and the Crown does not own Area 4, but rather owns Area 2.

Section 118 of the Land Title Act can offer some remedy to this conundrum, as it provides a simple mechanism to take lawful accretion, (in the example, Area 4), into Mr. Smith's title. Unfortunately section 118 does not provide a tool through which ownership of the river, (Area 2), can be taken off of Mr. Smith's title and returned to the Crown.

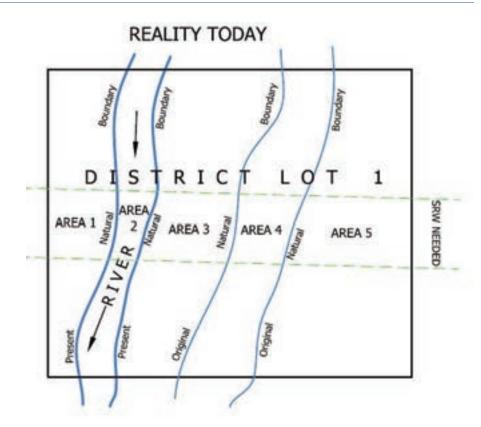
The following is a solution to this problem.

#### Procedure

1. A reference plan is prepared pursuant to section 108(1) of the *Land Title Act*. The plan returns to the Crown in right of *the Province* the submerged lands (Area 2). The heavy outline on this plan encompasses only the land currently below the natural boundary within the desired SRW



SKETCH B

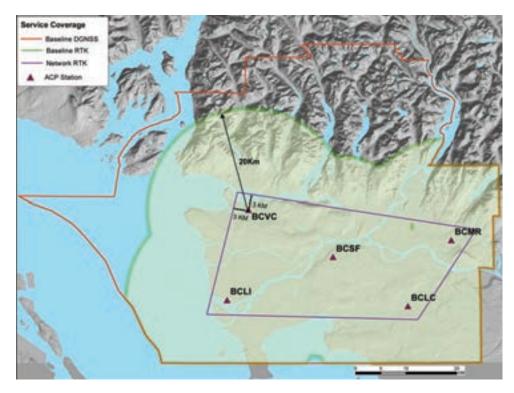


- area. No other portions of the parent parcel are dealt with on the plan. This plan will require owner and charge holder consent and the approval of the Approving Officer. Upon registration of this plan the submerged area becomes Crown land and Mr. Smith's title shows this exception.
- A statutory right of way plan is prepared which includes a certificate pursuant to section 118 of the Land Title Act. The land within the heavy outline on this plan includes Area 1, Area 3, Area 5 and Area 4. Area 2 is depicted in the scenery as Crown land by virtue of the preceding plan. The s.118 certificate serves to convey Area 4, being lawful accretion, to Mr. Smith. This statutory right of way plan is registered in the land title office. Mr. Smith can now grant a statutory right of way over Areas 1, 3, 4 and 5.
- A statutory right of way plan is prepared over the untitled Crown land being Area 2. This statutory right of way plan is registered in the land title office. The Crown can now grant a statutory right of way over Area 2. Upon receipt of the grant of statutory right of way, (Form C), the land title office will raise a title to Area 2 pursuant to section 24 of the Land Title Act Regulations and lodge the SRW charge against this title.

Separate statutory right of way instruments (in other words two SRW plans and two SRW charge documents) must be prepared in this scenario, one set for the private land and one set for the Crown land. .

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### Letter of Appreciation for the Okanagan-Mainline Group of BC Land Surveyors Land Surveying Bursary

June 9, 2019

Dear Okanagan-Mainline Group of BC Land Surveyors Bursary Committee,

As the recipient of the 2019 Okanagan-Mainline Group of BC Land Surveyors Land Surveying Bursary, I wanted to thank you for the generous support. I was thrilled to learn that I had received the award and am extremely appreciative.

I have just finished my second year at BCIT. My next step is to finish the four-year Bachelor of Science in Geomatics. I enjoy learning about all of the different sub-disciplines within geomatics that make it such an exciting and dynamic field. The rapid change

that is happening in the field makes me excited to see where the industry is going and how I can fit into that change. My goal is to one day become a BC land surveyor myself and be a part of the community that drives that change and progress.

Thank you again for your generosity and support. This award will ease the financial burden of being a student and help me to focus on my studies and excel at BCIT.

Sincerely,

Cuph

Aaron Rooke



"Members of ASTTBC play a vital role in senior management in our firm. They are 'hands-on' people responsible for managing staff and projects. The AScT or CTech designation is important to our firm and one that we look for when conducting interviews for new hires."

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**ASTTBC** certifies technologists and technicians with expertise in geomatics and survey technology, and regulates standards of practice in accordance with a Code of Ethics. Certification as an Applied Science Technologist (ASCT) or Certified Technician (CTech) is granted to individuals who meet stringent national standards, are job ready with education and experience.

We encourage all BC Land Surveyors to actively support the technologists and technicians on your team, to achieve certification.

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**Applied Science Technologists & Technicians** of British Columbia



For more information...

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The scanner includes VIS (visual inertial system) a new technology from Leica Geosystems that performs automatic point cloud alignment in the field, with no input from the user.



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### **New Commissions**



Tim Erickson and Mark Mason

### Timothy (Tim) Erickson, BCLS # 1007

Tim was commissioned on June 21, 2019 in Kamloops by Mark Mason.

Tim grew up in Kamloops. Following his passion for geography, math and physics he entered the Geomatics program at BCIT.

He would like to thank his wife Melissa and kids Nora and Connor; Marissa Moore, Nima Ghiasi, Tony deBruyne, and all the other land surveyors that helped him along the way.

Time spent playing ultimate Frisbee, hiking, wood working and playing with his kids are activities Tim enjoys during his spare time. Of note, Tim's Great Grandfather was one of the original settlers in the City of North Vancouver.



Dan Machon, Ken Schuurman, John Onderwater, Felix Chu. Sean Costello

#### Felix Chu, BCLS # 1008

Felix was commissioned on June 25, 2019 in Surrey by Dan Machon.

Felix was born and raised in Lima, Peru. Looking for a career change that involved both field work and office work, he pursued land surveying.

He would like to thank Sean Costello for his mentorship and support. Also, he would like to give a big thanks to his wife, Belinda for all her support through the years.

Felix is a big Canucks fan and loves soccer.



Taylor Kagel (LST), Rob Glass, Carl Bjarnason, Dan Machon, Dan Parker, Al Di Nozzi and Al Zacharias

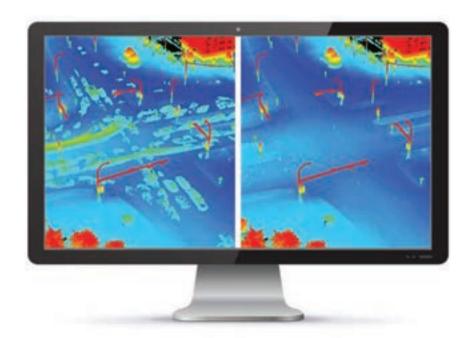
### Carl Bjarnason, BCLS # 1009

Carl was commissioned on June 25, 2019 in Vancouver by Dan Machon.

Carl was born in Comox and raised in Courtenay BC. Land surveying appealed to him as a profession because of the combination of office and field work, the challenges and variety of the work and the use of math.

He would like to thank, Rob Glass, numerous family members, friends and colleagues that helped him get to this point. Also thanks to his previous masters; Dave Symonds, and Gary Holme.

When he is not working, Carl enjoys soccer and mountain biking.



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### **New Commissions**



Peter Haas, Kathryn Hannah, Susie Wieler (sister), Abdu Wieler (nephew), David Swaile, Jacob Wall, Suphavadee (wife), Jason Kozina (master) and Cristin Schlossberger.

#### Jacob Wall, BCLS # 1010

Jacob was commissioned on July 12, 2019 in Victoria by Cristin Schlossberger.

Jacob grew up in southern Manitoba. He was born in Santa Cruz, Bolivia, at age six his family moved to Mexico, then at twelve his family moved to Manitoba.

Jacob describes himself as a curious person; interested in learning the way things work and why they are the way they are. Once he started to learn mathematics he became fascinated with applying mathematical concepts to the real world. Land surveying seemed like the ideal career choice due to the historical aspects of the cadastre and the application of mathematical concepts.

He would like to thank the following people for their help along the way; Jason Kozina, Peter Broeren, Michael Kidston, Steve Buziekievich, Mark Cahill, Bronwyn Denton, Sim Porcellato and Suphavadee, his wife.

He has a software programming hobby that takes up a significant portion of his free time. Otherwise Jacob enjoys travelling, camping in the summer and general leisure activities.

### Small lower mainland business for sale Inquiries: milner@dccnet.com

# Welcome baby Oscar



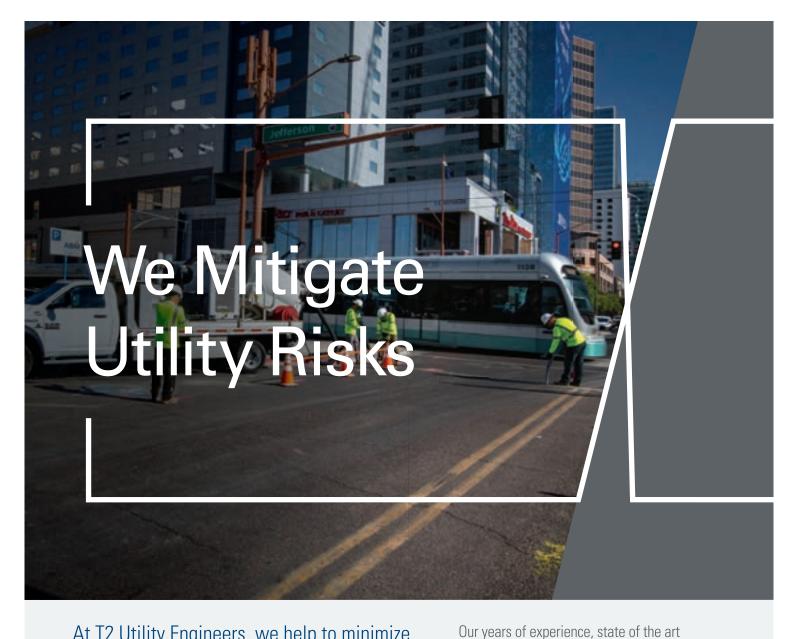


Ben Doherty (BCLS 865) and Kathryn Cairns (BCLS 930) would like to introduce the newest member of their family - Oscar Cecil Doherty, born June 10th, 2019. Oscar came into this world a very healthy 9lbs Ooz and 22.7 inches long. He'll likely be ready for hire as a survey assistant by next summer.

### **40 YEAR PIN**



Leigh Millan, BCLS (RET'D) receiving his 40 year pin at the Vancouver Island Regional group meeting in Nanaimo with Kelly Stofer.



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