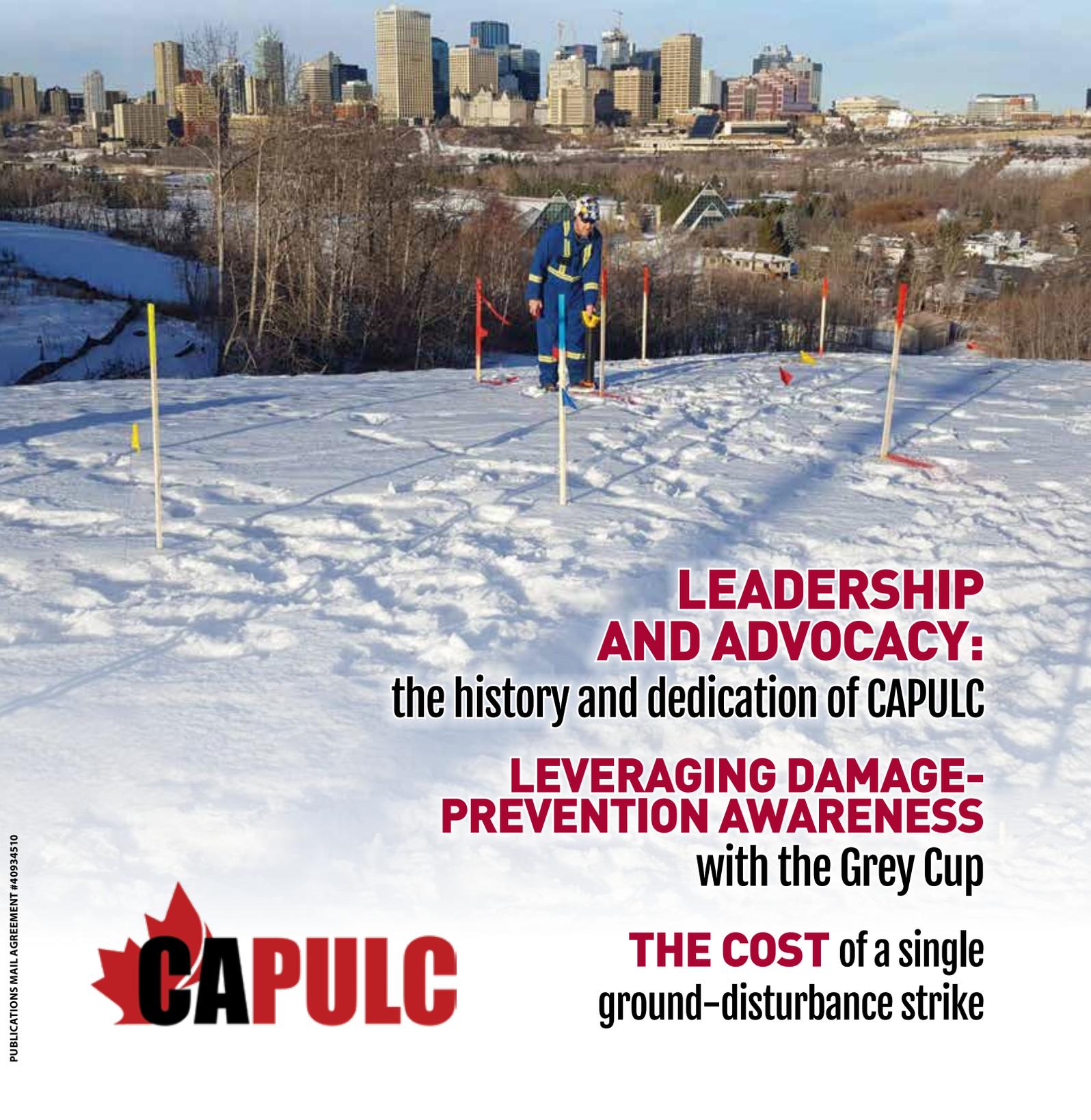


THE LOCATOR

Inaugural Issue 2018



**LEADERSHIP
AND ADVOCACY:**
the history and dedication of CAPULC

**LEVERAGING DAMAGE-
PREVENTION AWARENESS**
with the Grey Cup

THE COST of a single
ground-disturbance strike



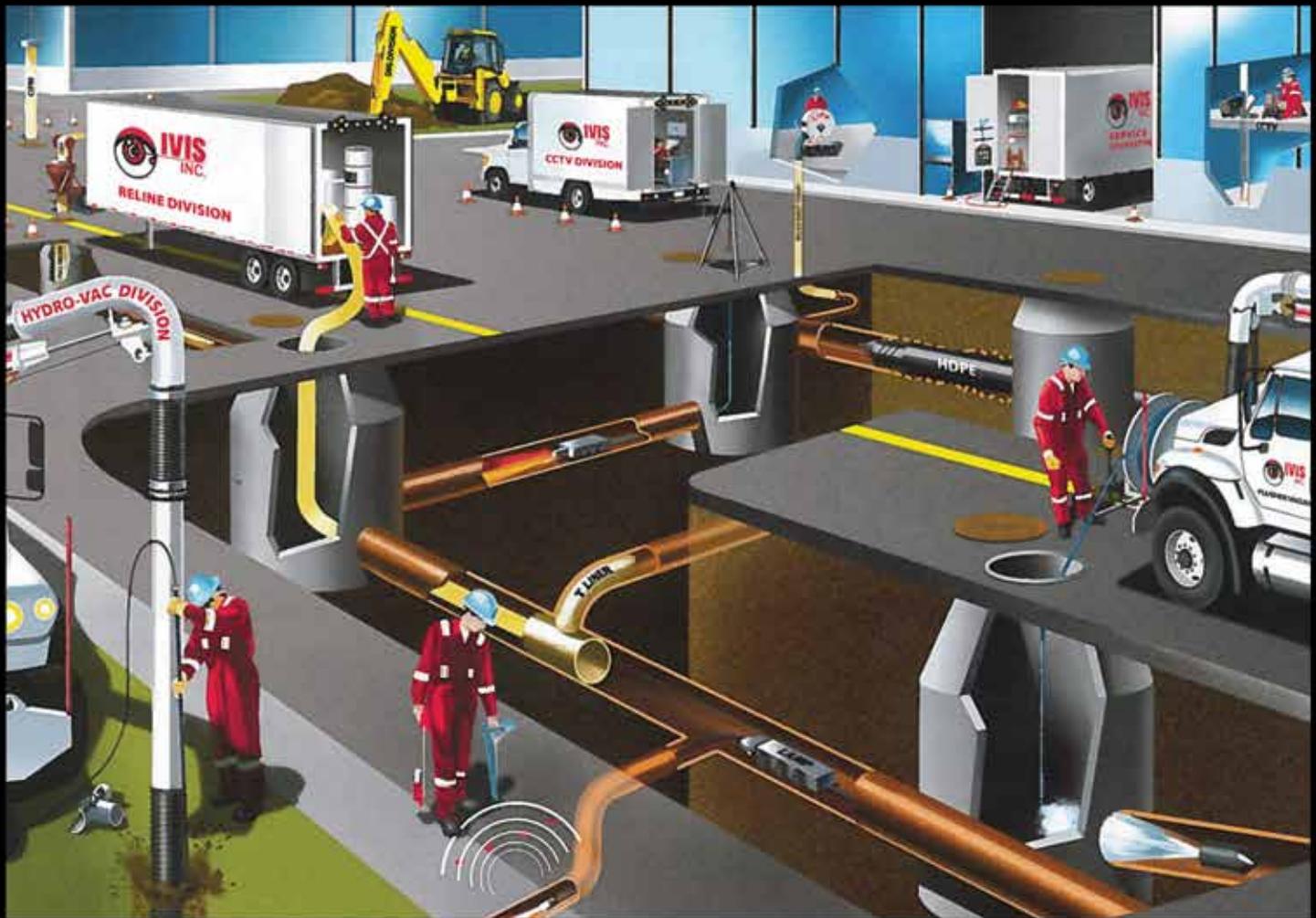
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Message from the president of CAPULC

RANDY PALANIUK



I would like to take this opportunity to thank everyone for their contributions to the inaugural issue of *The Locator* magazine. We hope that our readers find the content current, useful and interesting.

I don't want to sound grim in our first issue, but there are thousands of line strikes each year in Canada and the United States, according to the Common Ground Alliance (CGA) Damage Information Reporting Tool. Line strikes cause interruptions to daily life and commerce and physical danger to workers, the public and the environment. The annual report attributes many of the incidents to "locating practices not sufficient." Why should this be, and what can the locating industry do about it?

Facility owners, locators and ground disturbers are searching for new methods and ways to overcome unreliable facility locates, but locators face huge obstacles, which can negatively affect the accuracy of the locate, including:

- inaccurate records.
- locating technology limitations.
- facilities of various materials such as steel, iron, concrete, clay, plastics, fiberglass and aluminum.
- facilities of various shapes, densities and diameters.
- facilities buried at various depths – as shallow as a few centimetres to more than 50 metres.
- facilities buried at varying depths along their path (e.g. through horizontal directional drilling).
- facilities stacked or buried in a common trench, grouped

in a conduit, duct bank or utilidor.

- facilities buried near conductive surface structures or under concrete reinforced with rebar.

Locators must understand they are not simply out to mark the line. Locators must come to understand the critical nature of their job within the damage prevention process and industry. A good locator, among other things, will understand the infrastructure, proposed ground disturbance or excavation, locate methods, and will possess communication skills.

Considering these obstacles and having been trained to respond to them, the locator is tasked with determining and applying the best locating methods possible for each individual locating scenario to produce the desired result.

This magazine strives to provide locators (and stakeholders benefitting from the efforts of locators) with answers to questions and challenges affecting locating, ground disturbance and damage prevention.

The Canadian Association of Pipeline and Utility Locating Contractors (CAPULC) welcomes all suggestions for topics and invites everyone to submit papers for possible inclusion into the magazine. Please email us at admin@capulc.ca.

We hope you enjoy the reading this publication and that you can apply the content to your locating and/or otherwise damage prevention responsibilities. ●

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Message du président de la CAPULC

RANDY PALANIUK

J'aimerais profiter de l'occasion pour remercier toutes les personnes qui ont contribué au premier numéro de notre revue. Nous espérons que nos lecteurs trouveront son contenu actuel, utile et intéressant.

Je ne veux pas être sombre dans notre premier numéro, mais on observe, chaque année, des milliers de ruptures de canalisations au Canada et aux États-Unis, selon l'outil de communication d'information sur les dommages de la Common Ground Alliance (CGA). Les ruptures de canalisations causent des interruptions dans la vie quotidienne et les activités commerciales et exposent les travailleurs, le public et l'environnement à des dangers physiques. Le rapport annuel de la CGA attribue bon nombre des incidents à des « pratiques de localisation insuffisantes ». Pourquoi avons-nous une telle situation et que peut faire l'industrie de la localisation à ce sujet?

Les propriétaires d'installations, les localisateurs et les personnes qui remuent le sol recherchent de nouvelles méthodes et moyens de rendre plus fiable la localisation d'installations, mais les localisateurs font face à d'importants obstacles qui peuvent avoir des incidences négatives sur l'exactitude de la localisation, notamment :

- dossiers inexacts;
- limites de la technologie de localisation;
- installations fabriquées avec divers matériaux (acier, fer, béton, argile, plastiques, fibre de verre et aluminium);
- installations de divers diamètres, formes et densités;
- installations enfouies à des profondeurs variées (de quelques centimètres à plus de 50 mètres);
- installations enfouies à des profondeurs variées le long de leur parcours (p. ex., forage directionnel horizontal);
- installations empilées ou enfouies dans une tranchée commune ou regroupées dans une canalisation, un massif de conduits ou un réseau de distribution aérien sous coffrage;
- installations enfouies près de structures à surface conductrice ou sous du béton armé de barres d'armature.

Les localisateurs doivent comprendre qu'ils ne servent pas seulement à marquer les canalisations. Ils doivent comprendre la nature critique de leur travail dans le cadre du processus et du secteur de la prévention des dommages. Un bon localisateur comprend, entre autres, l'infrastructure visée, la perturbation du sol ou l'excavation proposée, ainsi que les méthodes de localisation, et il affiche une bonne aptitude à communiquer.

Tenant compte des obstacles et ayant été formé pour les surmonter, le localisateur a pour tâche de déterminer et d'utiliser les meilleures méthodes possibles pour chaque scénario de localisation individuel afin de produire les résultats voulus.

Notre revue s'efforce d'offrir aux localisateurs (et aux parties intéressées qui bénéficient de leurs efforts) des réponses aux questions et aux défis qui ont des incidences sur la localisation, la perturbation du sol et la prévention des dommages.

La CAPULC accueille toutes les suggestions de sujets et invite toutes les personnes intéressées à soumettre des articles à sa revue. Veuillez nous transmettre un courriel à l'adresse admin@capulc.ca.

Nous espérons que vous apprécierez la lecture de notre revue et que vous pourrez utiliser son contenu dans vos activités de localisation ou de prévention des dommages. ●

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Special announcement from the executive director of CAPULC

JASON MUGFORD

The Canadian Association of Pipeline and Utility Locating Contractors (CAPULC) provides leadership, promotes safety and works to enhance the value and reputation of the underground facility locating industry in Canada. CAPULC is further responsible for establishing and sanctioning the minimum health, safety and environmental protection standards that govern the locating industry and its members' business operations.

As part of these responsibilities, CAPULC is working in partnership with the Government of Alberta to recognize locators as a designated occupation to standardize the industry in Alberta. Through this mandate, CAPULC has

reviewed available locator training programs, and endorses Locate Management's Underground Facility Locator (UFL) certificate program as being of superior quality.

The program adheres to the Underground Facility Locator (UFL) Competency Cycle which consists of three stages:

1. Knowledge development (preferably industry-specific course(s)).
2. Industry-specific field training (practical hands-on and on-the-job training).
3. Industry-specific final assessment (verification of knowledge and skills).

The Underground Facility Locator's Field Task Competency Manual (UFL Manual) represents the third and final stage in the UFL Competency Cycle. The UFL Competency Cycle and the UFL Manual are endorsed and published by CAPULC.

Locate Management's program consists of three steps:

- Step 1: Complete an online line locator knowledge course(s).
- Step 2: Complete a two-day locator field training course.
- Step 3: Initial assessment(s) utilizing the UFL Manual.

DISCLAIMER

The within endorsement is for information only, and CAPULC makes no representations, warranties, or guarantees about the Program, including but not limited to, [passing the certification requirements established by Alberta Advanced Education, Apprenticeship and Industry Training, Government of Alberta]. Before deciding to enroll in the Program, individuals should conduct their own due diligence with respect to the Program and should not solely rely upon CAPULC's endorsement. CAPULC assumes no responsibility whatsoever, for any injury, loss or damage arising from this endorsement or from the Program itself. ●



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Annonce spéciale de la CAPULC

JASON MUGFORD

La Canadian Association of Pipeline and Utility Locating Contractors (CAPULC, association canadienne des entrepreneurs en localisation des canalisations et des services publics) offre un leadership, préconise la sécurité et travaille à l'amélioration de la valeur et de la réputation de l'industrie de la localisation des installations souterraines. La CAPULC est également responsable de l'établissement et de l'approbation des normes de protection de la santé, de la sécurité et de l'environnement qui régissent l'industrie de la localisation et les activités commerciales de ses membres.

Dans le cadre de ses responsabilités, la CAPULC travaille en partenariat avec le gouvernement de l'Alberta à reconnaître les localisateurs comme des titulaires d'une profession désignée afin de normaliser l'industrie en Alberta. Au cours de son mandat, la CAPULC a examiné les programmes de formation des localisateurs existants et elle a approuvé le programme de certification des localisateurs d'installations souterraines (LIS) de Locate Management comme étant de qualité supérieure.

Le programme adopte le cycle des compétences des LIS, qui comprend trois étapes :

1. Développement des connaissances (de préférence, des cours propres à l'industrie).
2. Formation sur le terrain propre à l'industrie (formation pratique et en cours d'emploi).
3. Évaluation finale propre à l'industrie (vérification des connaissances et des compétences).

Le manuel des compétences pour les tâches sur le terrain des LIS représente la troisième et dernière étape du cycle des compétences des LIS. Le manuel et le cycle des compétences des LIS sont approuvés et publiés par la CAPULC.

Le programme de Locate Management comprend les trois éléments suivants :

- Étape n° 1 : Réussir un ou plusieurs cours en ligne sur les connaissances du localisateur de canalisations.
- Étape n° 2 : Réussir un cours de formation en localisation de deux jours sur le terrain.
- Étape n° 3 : Évaluation(s) initiales(s) à l'aide du manuel des LIS.

AVIS DE NON-RESPONSABILITÉ

L'approbation indiquée ci-dessus ne vise que l'information et la CAPULC ne fait aucune déclaration et n'offre aucune garantie au sujet du programme, y compris sans s'y limiter, la satisfaction des exigences de certification établies par Alberta Advanced Education, Apprenticeship and Industry Training, un ministère du gouvernement albertain. Avant de décider de s'inscrire au programme, les participants devraient faire preuve d'une diligence appropriée en ce qui concerne ce dernier et ils ne devraient pas se fier uniquement à l'approbation de la CAPULC. Cette dernière n'accepte aucune responsabilité, quelle qu'elle soit, pour tout préjudice ou dommage, ou toute perte, qui peut découler de son approbation ou du programme lui-même. ●



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Message from the Canadian Minister of Infrastructure

AMARJEET SOHI

INVESTING IN CANADA

Thank you for your invitation to be part of the inaugural issue of *The Locator*. It's an honour for me to connect with your readers and I would like to wish you all the best with this new magazine.

Your association and its members play a key role in improving regulation and promoting safe practices in communities across the country. Ultimately, your members help to make sure that the foundations on which we build are safe.

As Canada's Minister of Infrastructure and Communities, I firmly believe that infrastructure investments are key to the success of our country. Infrastructure provides Canadians with opportunities. Infrastructure gets us to work and our kids to school. Infrastructure supports growing businesses. And infrastructure helps lift families out of poverty.

That is why the Government of Canada is making historic investments in

infrastructure. Our Investing in Canada infrastructure plan will provide more than \$180 billion over 12 years to improve vital infrastructure across the country. We are focused on five key areas – public transit; green infrastructure, social infrastructure; transportation infrastructure that supports trade; and rural and northern communities.

To better support these priority areas, our government is taking innovative approaches to infrastructure and community-building. The Canada Infrastructure Bank (CIB) is a new tool that our partners have the option of using to build more infrastructure by attracting private sector investment to their projects.

Another way we are thinking outside the box is through our Smart Cities Challenge, which kicked off in the fall. We are calling on communities of all sizes from across Canada to work with

private and not-for-profit sectors and the research community to improve the lives of residents through the use of data and connected technology. Their applications are due in April.

I am very proud of the plan that we have put together because it was developed in close collaboration with our many partners. We have worked with the provinces, territories, municipalities, Indigenous leaders and stakeholder groups – like yours – to design our plan, and it's based on what Canadians have said is important to them.

As communities undertake the ambitious projects that their communities want and need, pipeline and utility-locating contractors will be important partners in making sure construction is done safely and responsibly. Your expertise will be invaluable in helping complete projects on time and on budget.

By investing in infrastructure now – and working with organizations like yours to support those investments – we can strengthen and grow the middle class and make Canada an even better place to call home.

Yours sincerely,

*The Honourable
Amarjeet Sohi, P.C., M.P.*

*Minister of Infrastructure
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Message du canadien ministre de l'infrastructure

AMARJEET SOHI

INVESTIR DANS LE CANADA

Je vous remercie de m'avoir invité à participer au premier numéro de la revue *The Locator*. C'est un honneur pour moi d'avoir la possibilité de m'adresser à vos lecteurs et j'aimerais vous souhaiter tout le succès possible avec votre nouvelle revue.

Votre association joue un rôle essentiel dans l'amélioration de la réglementation et dans la promotion des pratiques sécuritaires dans les collectivités de tout le pays. En fin de compte, vos membres contribuent à assurer la sécurité des fondements de nos infrastructures.

À titre de ministre de l'Infrastructure et des Collectivités du Canada, je crois fermement que les investissements dans les infrastructures sont essentiels au succès de notre pays. Les infrastructures offrent de nouvelles possibilités aux Canadiens. Elles nous permettent de nous rendre au travail et de conduire nos enfants à l'école. Elles favorisent la croissance des entreprises. Et elles aident les familles à sortir de la pauvreté.

C'est pourquoi le gouvernement du Canada effectue des investissements sans précédent dans les infrastructures. Dans le cadre de notre plan d'infrastructure *Investir dans le Canada*, nous verserons plus de 180 milliards de dollars sur 12 ans pour améliorer les infrastructures essentielles partout

au pays. Nous mettons l'accent sur cinq secteurs principaux : le transport en commun, les infrastructures vertes, les infrastructures sociales, les infrastructures de transport qui appuient le commerce, et les collectivités rurales et nordiques.

Pour appuyer plus efficacement ces secteurs prioritaires, notre gouvernement adopte des approches novatrices pour la construction des infrastructures et l'édification des collectivités. La Banque de l'infrastructure du Canada (BIC) est un nouvel outil que nos partenaires pourront utiliser pour mettre en place davantage d'infrastructures en attirant des investissements du secteur privé pour leurs projets.

Nous faisons également preuve d'innovation dans le cadre du Défi des villes intelligentes, que nous avons lancé l'automne dernier. Nous avons invité les collectivités de toutes les tailles et de toutes les régions du Canada à collaborer avec le secteur privé, le secteur sans but lucratif et le milieu de la recherche pour améliorer la qualité de vie des résidents grâce à l'utilisation de données et de technologies numériquement reliées. Les collectivités doivent soumettre leurs demandes d'ici avril.

Je suis très fier du plan que nous avons mis en place, puisqu'il a été élaboré en étroite collaboration avec nos nombreux

partenaires. Nous avons travaillé en partenariat avec les provinces, les territoires, les municipalités, les dirigeants autochtones et des groupes d'intervenants – tels que le vôtre – pour concevoir notre plan, qui est fondé sur les priorités des Canadiens.

Alors que les collectivités entreprennent les projets ambitieux qu'elles souhaitent réaliser et dont elles ont besoin, les entrepreneurs en localisation des canalisations et des services publics seront des partenaires importants pour assurer la sécurité et la responsabilité des travaux de construction. Votre expertise sera précieuse pour faciliter l'exécution des projets de façon à respecter les échéances et les budgets prévus.

En investissant dans les infrastructures dès maintenant – et en travaillant avec des organisations telles que la vôtre pour appuyer ces investissements – nous pouvons contribuer au renforcement et à la croissance de la classe moyenne et faire du Canada un milieu de vie encore meilleur.

Cordialement,

L'honorable Amarjeet Sohi, C.P.,

député Ministre de l'Infrastructure et des Collectivités ●



LEADERSHIP AND ADVOCACY: **THE HISTORY AND DEDICATION OF CAPULC**

In April 2002, a small and respected group of companies actively involved in the locating industry decided to form an association: the Canadian Association of Pipeline and Utility Locating Contractors (CAPULC). As most of the founders were contractors in the field, they had a vested interest in shaping the future of Canada's locating industry and desired to be proactive in the development of standards within it. These companies devoted their time and resources, collaborating to develop a corporate direction as a united group. They agreed that the development of locating standards, the guidelines for evaluating competencies and qualifications required should be determined by those with the knowledge and experience involved in the locating industry. Collectively their goal, through membership, was to improve the industry through education to improve the standard, ethical practices and competency level that could be recognized by all.

Over the past 16 years, CAPULC has provided leadership, and enhanced the value and gained a reputation for the underground facility-locating industry. While there have been many struggles and setbacks through this process, CAPULC has made strides, especially recently, to establish the educational elements necessary to develop programs, excel in the field and influence educational decisions. The association has effectively served as a communication link offering due diligence support among clientele, the public, the locate industry, industry associations and government regulating agencies. Collectively, CAPULC has actively worked to gain a new recognition for the locating industry.

1984

- Oct. 1, 1984: Canada's first One Call centre in Alberta forms as a non-profit corporation.

2002

- April 10, 2002: First documented meeting of CAPULC takes place. Name search successful, corporate registries filing to be completed and first board forms. Mission Statement development begins.

- April 22, 2002: Non-profit corporation born as the Canadian Association of Pipeline and Utility Locating Contractors (CAPULC).
- Nov. 8, 2002: Logo and bylaws are approved.

2003

- Jan. 17, 2003: New updated logo is accepted. Four to five members are requested to attend PITS Oilfield Locating Course Dacum to adequately represent locating industry and assist where needed.

2004

- June 25, 2004: Annual General Meeting: Address is formally changed to Calgary. Marked start of marketplace and bulk buying options for members. PITS Seismic Course set to start in August 2004. Abacus Datagraphics, member of CAPULC, offers Abadata (online reference and internet mapping software) to the locate industry as a support.

2005

- Feb. 23, 2005: The discussion of creation of info sessions to clients running approximately 20 to 30 minutes that cover techniques and procedures, what clients need to supply a locator, types of machines, etc. takes place. Standard presentation to be developed to help clients.
- March 18, 2005: Canadian Locating Standards Version 1 approved by CAPULC. Document to be released to industry for feedback.
- April 15, 2005: CAPULC standards committee submits first draft of the standards for feedback.
- June 15, 2005: CAPULC standards committee releases Version 2 of the Canadian Locating Standards based on feedback from membership and industry. Document incorporates changes and comments received. Standards are sent out to ballot for acceptance by membership on Oct. 21, 2005 and again on Jan. 20, 2006 in attempt to have a response from all members.
- Southern Alberta Institute of Technology (SAIT) course development for pre-employment line-locating training discussed.

- Feasibility meeting with Enform (formally PITS) to make a presentation to CAPP regarding support for development of an oilfield-based locator course takes place.

2006

- Feb. 17, 2006: CAPULC's Canadian Locator Technician Standards is renamed to Locating Industry Recognized Practices (LIRPs) to signify changes within the creation and direction of the standards document to include more information. "Practices that have been proven effective through experience under a variety of conditions," is used as LIRPs' definition. Practices and procedures will be prioritized and a plan developed within the standards committee.
- August 2006: Members formally adopt LIRPs.
- September 2006: Course audit committee forms to create audit tool and review available course for endorsement.
- October 2006: LIRPs are posted to the CAPULC website for use, feedback and further development.

2007

- Feb. 16, 2007: Full-time administrative co-ordinator position is implemented to assist with day-to-day operational needs of the association.

- March 16, 2007: LIRPs are temporarily removed for new revision to add more information from other locating industries, such as the seismic/utility industry. Discussions on whether to approach Alberta Advanced Education or submit an application for Canada-wide training resume. CAPULC's initiatives need help – the association doesn't have the facility to do it alone. More interest is generated to seek membership from other provinces to have input across the country to create a well-rounded initiative and recognition.

2008

- January 2008: Audit tool for courses, a three-part system to define the criteria and assessment results, is in development. Discussions of logbook development for students to track training take place.
- March 14, 2008: Audit tool for courses is complete. Enform buried facility locator course begins to take shape and needs technical input. Course changes to a three-day program.
- April 18, 2008: Alberta Damage Prevention Council, now the Alberta Common Ground Alliance (ABCGA), asks for a review of GDII training looking to make the course available to other trainers and creates a committee to assist. ABCGA uses the CAPULC standards as a guideline.



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2009

- June 19, 2009: Enform is ready to roll out its training program. The locator logbook is nearly ready for release. Digital Oscillations is preparing an electronic version. A hard copy will be available on website within next few weeks.
- Sept. 18, 2009: Enform produces its gas distribution module and will soon be ready for implementation.
- Oct. 2, 2009: Standards committee recommends log book to be rescinded and no longer a direction that CAPULC wants to proceed with. This information is passed to the CAPULC board.
- October 2009: Standards committee is in talks with SAIT and Alberta Hot Line to partner to produce an online course.

2010

- May 2010: LIRPs are repealed under legal opinion and removed from distribution. In early 2010, the practices are thoroughly studied and evaluated through membership meeting reviews and it is determined they contain incomplete, inaccurate and insufficient information that could cause or lead to social, environmental and economic consequences as a result of the lack of cautions associated with them.

CAPULC requests legal advice concerning their liability position regarding the LIRPs and the legal opinion it receives recommends repealing the LIRPs. The board consults with membership and feels that obtaining comprehensive advanced education and training would better serve CAPULC to improve locator qualification through competency measures, ensuring that the locator has the skills, knowledge and required training to accomplish their job functions. LIRPs were never intended on being a manual of practice. CAPULC therefore supports the Alberta Advanced Education underground facility locator (UFL) designated occupation application, ensuring there is a standard to which all existing and future locators will be trained.

2011

- New website and new online tools for members to interact are launched. This includes tools for membership renewals, marketplace access, advertising, news and events, and a job notification service.
- CAPULC creates a training and education committee with the directive to find out how to properly train underground facility locators. SAIT is approached to provide a training solution for UFLs and develop an advanced line-locating course. SAIT

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will make initial contact with Alberta Advanced Education in respect to obtaining a designated occupation status.

- July 27, 2011: CAPULC supports the Canadian Common Ground Alliance's application to the Canadian Radio-television and Telecommunications Commission (CRTC) for shared use of 811 in Canada for public access to both non-emergency medical services and call before you dig (a nationwide three-digit number to eliminate confusion between provinces).
- October 2011: CAPULC bylaw revisions are approved by membership in April 20, 2017 AGM and are filed with Alberta Registries.

2012

- 2012: Task force is developed by industry (CAPULC, Alberta One-Call, Enbridge Inc., TransCanada, Canadian Association of Petroleum Producers, Canadian Energy Pipeline Association, and Canadian Association of Geophysical Contractors) to apply for designated occupation status.
- March 2012: Task force submits letter of intent to Alberta Apprenticeship for designated occupation status for UFL.
- Sept. 25, 2012: Draft application is reviewed at board meeting

and support will be attached when it is sent to Alberta Apprenticeship.

- Dec. 18, 2012: Task force requests formal letters of support from industry to accompany letter.
- Dec. 19, 2012: CAPULC formally submits a letter to the task force to support the underground facility locator occupational designation application.
- Dec. 28, 2012: A letter addressed to industry contains information regarding the May 2010 termination of the LIRPs is sent out to all stakeholders once CAPULC learned that companies were still using them.

2013

- Jan. 18, 2013: CAPULC writes a letter to Enform. It is imperatively important that CAPULC's repealed LIRPs be removed from all Enform curriculums. CAPULC finds that many companies are continuing to use the practices in their own codes of practices and believes this has created a hazardous industry situation that needs to be corrected as soon as possible.
- January 2013: Task force meets and discusses application revisions.



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- April 2013: Task force discusses final revisions to application.
- April 26, 2013: Task force submits application to Alberta Apprenticeship for occupational designation for UFL.

2014

- Oct. 2, 2014: CAPULC approves and endorses Locate Management's UFL Task Manual Version 1. Formal endorsement and permission of use for CAPULC logo is forwarded to Locate Management on Oct. 20, 2014. The manual was reviewed by industry and corrections, updates and improvements are made based on this feedback. CAPULC is confident that due diligence has been tested. Many industry members and organizations feel it is a positive step forward.

2015

- Updated logo, renewed vision and new website are launched to allow more information and services for members.
- Version 2 of Locate Management's UFL Task Manual is published and includes input from industry, additional information, updated references and more images.
- April 2015: Designated occupation application response from Alberta Advanced Education prompts frequently asked

questions information sheet to be sent to industry. It offers industry information on the process being taken by CAPULC and the task force to obtain approval for the designated occupation application and how it affects the locating industry.

- May 25, 2015: Locate Management competency profile draft is sent to CAPULC members, facility owner/operators and other industry stakeholders in Canada, the United States and Australia – collective input improves development.
- May 26, 2015: CSA Z247 – damage prevention standard for the protection of underground infrastructure – is published. It is the first damage prevention standard in Canada. Sponsors include the National Energy Board, Natural Resources Canada, the Canadian Energy Pipeline Association and the Canadian Gas Association.
- June 2015: CAPULC offers its expertise to the Alberta Common Ground Alliance during the revision of its GDII course and sends a list of updates to assist in the locating portion of the course.
- Oct. 15, 2015: Alberta Advanced Education's subcommittee tables the application for occupational designation requesting that the task force submit letters of support from the

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individual member companies and not just association representatives. On Nov. 20, 2015, a letter is addressed to the members requesting their individual support. Members are also supplied the background discussion and FAQ for information.

- November 2015: Article is published in the *Damage Prevention Professional Magazine* recognizing CAPULC's efforts and additions to the locating industry.

2016

- January 2016: CAPULC establishes a competency review committee to address the more than 3,200 competencies identified in the UFL competency profile and any gaps. CAPULC is structured to facilitate a comprehensive review of the required competencies for a UFL to increase the accuracy and reliability of locates. This includes a review of theoretical knowledge, regulations, skills, attitudes, training programs, safe work practices, manufacturer's equipment reference material and other technology used by locators in accomplishing day-to-day tasks identified in the May 25, 2015 profile sent to industry members. Industry stakeholder groups form subcommittees, including electric power, transmission pipelines, gas distribution, petroleum producers, general locating of privately-owned facilities, telecommunications/CATV, water and wastewater, and surveying and mapping.
- April 2016: Additional requirements are added to the code of ethics form, which all members sign. Among several items detailed in the code, members must adhere to the UFL competency cycle and its three stages: knowledge development, industry-specific field training and industry-specific final assessment.
- Sept. 29, 2016: First reading of Bill S-229 by senator Grant Mitchell. The bill is an important piece of legislation that will reduce the costs and increase safety associated with damages to underground infrastructure by addressing the need for a mandated comprehensive call/click-before-you-dig notification system across Canada.
- June 19, 2016: The Pipeline Safety Act – Bill C46, which gained Royal Assent on June 18, 2015, comes into force, influencing the locating industry.

2017

- The January 2017 issue of the *Ontario Construction Report* publishes an article as a special feature for CAPULC's focus on competency, ethics and professional recognition.
- March 22, 2017: Alberta Advanced Education denies application for occupational designation based on insufficient support from the industry. It is agreed that the information provided to the department in the initial application is insufficient and due to the economic downturn experienced in the industry that it would be pertinent to update the application information. A list of questions is sent from the minister of advanced education to the task force and will await a response.
- April 7, 2017: At the CAPULC AGM, annual membership dues are adjusted from July 1 to April 1 to coincide with the fiscal year end. Member fees will be prorated due to the change. COR and SECOR requirements are removed from the regular membership requirement. Member process policy will be updated to include directives for the association to guide regular members to obtain COR and SECOR as required. Discussion on the progress of the application for occupational designation will be addressed and resubmitted by the board.
- September 2017: CAPULC launches *The Locator*, its annual magazine published by DEL Communications Inc. to boost communication with the locating industry.
- October 2017: CAPULC reaches out for legal consultation on its response letter draft to the task force and official endorsement of Locate Management's program. A few documents are required to further protect CAPULC and its membership. The board approves the proposal. A sponsorship page is added to the website and confirmation of the 2018 AGM on April 27, 2018 at the Radisson Hotel in Red Deer is approved. The UFL competency profile takes a small change in direction. The committee will take all the completed work on the competency profile to date and focus on ensuring all critical tasks are in the UFL manual. Individual organizations can use the profile to create their own "fine-tuned" competency profile to meet their company's needs.

2018

- Jan. 4, 2018: A formalized response is sent to the task force and Alberta Advanced Education in hopes of providing enough information and support for an approval to the application for designated occupation of underground facility locator. ●

CAPULC hosts **AGM AND SAFETY CONFERENCE**

The Canadian Association of Pipeline and Utility Locating Contractors is pleased to announce its Annual General Meeting and Safety Conference on April 26 and 27, 2018 at the Radisson Hotel in Red Deer, Alta. Registration is now open, and all attendees must register on the events page on CAPULC's website (capulc.ca/Meetings-and-Events). Registration and meals are free, and seats are limited, so reserve your spot today.

Keynote speaker John Brix will be sharing his *The Story Telling Brain* presentation on stress management, containing valuable information for all attendees. Before getting into the oil and gas industry, Brix was a police officer for a major metropolitan city for over 13 years. During that time, Brix was involved in the service's training department for over four years as a full-time member and five years as a part-time member. Brix had the opportunity to train more than 600 recruits and hundreds of in-service personnel. He gained training and instructor certification from the FBI and various other institutions around North America, from that he learned a very innovative and progress set of instructional philosophies which he has now successfully customized to the oil and gas, safety and construction industries. Brix has designed customized presentations for various professional athletics groups and emergency services, presenting to more than 7,000 people in 2015 as a keynote speaker across Canada.

This year, there will be dedicated trade show times featuring live vendor demos in the trade show area. CAPULC has

doubled the number of booths available to exhibitors and sold out of booth spaces in just two days.

CAPULC will also host a networking event on the evening of April 26 at the West 67 Lounge & Grill in the Radisson Red Deer. Meet the board of directors and find out more about the association. This will be a great opportunity to socialize with industry peers and discuss issues important to our industry. Appetizers will be served, and full bar service and food menus will be available.

Session topics include:

- The Right of Way, or the Wrong Way.
- New Technology for Locators.
- Damage Prevention, Enforcement & Penalty Tools.
- GPR Benefits and Limitations for Locators.
- UFL Manual Explained.

Get updates from our committees on the designated occupation for underground facility locators (UFL), UFL competency review and sponsorship and events. Additionally, CAPULC will



Keynote speaker John Brix will be sharing his *The Story Telling Brain* presentation on stress management, containing valuable information for all attendees (supplied photo).

be electing directors for the upcoming term and president Randy Palaniuk will be giving his 2017-2018 report.

The entire board of directors would like to invite everyone involved in the ground disturbance community to join us this April for an informative and safety-focused conference. Remember, April is Safe Digging Month – let's focus on damage prevention this upcoming digging season. ●



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LEVERAGING DAMAGE- PREVENTION AWARENESS WITH THE GREY CUP

By Mike Sullivan

Demographics are a promotional campaign's key ingredient, and identifying and reaching your target audience is critical. When done correctly, it can be the tipping point between meeting your objective and missing it altogether.

The Common Ground Alliance (CGA) has a solid history of leveraging sports, such as NASCAR, hunting, fishing, horse racing and baseball to promote damage-prevention awareness. In Canada, our greatest pastimes are hockey and football. Although hockey season doesn't align with the digging season, the Canadian Football League's season does.

A few years ago, Steve Loney, a TransCanada employee in Manitoba with unique ties to the Canadian Football Hall of Fame, presented the Canadian Common Ground Alliance (CCGA) with an exclusive opportunity to become the hall of fame's safety sponsor. It provided the CCGA with numerous appearances of the Grey Cup throughout Canada and tickets to the Grey Cup championship game, allowing us to leverage awareness in a way we had never done before.

The Grey Cup is awarded to the victorious east-versus-west team competing for the cup in one of Canadian television's largest annual sporting events. The trophy was commissioned in 1909 by the Earl Grey, Canada's



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then-governor general, who originally intended to donate it for the country's senior amateur hockey championship. The Grey Cup has tremendous character. It has been broken on several occasions, stolen twice and even held for ransom. It miraculously survived a 1947 fire that destroyed several artifacts housed in the same building.

Jeff McWhinney is one of the official Keepers of the Grey Cup. For McWhinney, his role as Keeper of the Cup has deep meaning. His father, Glenn "The Keeper" McWhinney, played professional football for the Edmonton Eskimos and Winnipeg Blue Bombers and instilled a deep respect within his son for the sport, its players and the cup. After a few hours spent with the younger McWhinney as he tirelessly showcases the people's cup to any person who wants to see it, you've been converted – you also become a custodian of the cup.

The CCGA's relationship with the Canadian Football Hall of Fame and the Grey Cup created excitement and a general buzz everywhere it went. It has opened doors, produced interest, initiated discussion, bridged relationships and leveraged ClickBeforeYouDig and DigSafe awareness. While the CCGA learned about the history of the Grey Cup and the players' names engraved on it, McWhinney was learning about the CCGA and the critical importance of preventing damage to Canada's critical underground infrastructure. While we became custodians of the Grey Cup, McWhinney became a damage prevention ambassador.

The CCGA has been working on securing national damage prevention legislation for the past three years

and in September 2017, the CCGA's annual Damage Prevention Symposium strategically took place in Ottawa, Ont. While there, the CCGA scheduled meetings with federal departments, ministries and members of Parliament. We also were fortunate enough to hold a reception for members of Parliament on Parliament Hill to promote awareness of the legislation recently adopted in the Senate and about to be tabled in the House of Commons. With McWhinney and the Grey Cup in appearance, the reception was at capacity. While our government leaders waited their turn to have their photograph taken with the cup and McWhinney, a team of CCGA representatives mingled with them, delivering key legislation messages and answering questions on the imperative need to secure national damage prevention legislation. The event was a tremendous success and wouldn't have been possible without the presence of the Grey Cup and McWhinney, its dedicated keeper.



The CCGA was proud to be the 2016-2017 safety sponsor for the Canadian Football Hall of Fame. The Grey Cup symbolizes the vision, journey, passion and teamwork it takes to achieve our goal of zero damages and we were humbled to borrow equity, determination and pride from those whose names appear on the Cup and in the Hall of Fame.

Mike Sullivan is executive director for CCGA. He can be reached at msullivan@canadiancga.com. ●

An advertisement for T2 utility engineers. The top half features a technical utility map with various colored lines and text. Overlaid on the map is the word "Utility" in blue, followed by "MAPPING" in large, bold, blue letters. Below that, the tagline "the way to successful projects" is written in a smaller blue font. The bottom half of the ad has a white background with the T2 utility engineers logo on the left. To the right of the logo is a list of services: Utility Mapping, Utility Design, Asset Management, Ground Penetrating Radar, Utility Coordination, and CCTV Sewer Services. At the very bottom, there is a blue banner with white text providing contact information: T: 1-855-222-T2UE, E: info@t2ue.com, www.t2ue.com, and the slogan "your source for subsurface utility engineering services".

THE COST OF A SINGLE GROUND-DISTURBANCE STRIKE

How much does it cost when a buried cable or pipeline is struck during a ground disturbance activity?

On average, the societal cost is \$100,000 per event.

According to the 2015 Damage Information Reporting Tool (DIRT) report, this average is based on more than 4,500 damage events reported across the three western provinces (Saskatchewan, Alberta and BC) at an estimated societal direct cost of up to \$525 million.

WHEN ARE MOST STRIKES REPORTED?

Most damage events occur in the summer months from July through October. Now is the time to ensure your employees are appropriately trained. Making sure that all employees are aware of the potential hazards of a ground disturbance at any depth can save you time, money and effort.

WHAT CAN YOU DO?

Appropriate training for all employees that work in and around ground-disturbance projects is the critical first step towards damage prevention. The Alberta Common Ground Alliance (ABCGA) has developed training best practices based on industry input and on the DIRT report findings. The

standard's purpose is to improve education to prevent and mitigate damage events. One key best practice noted in the standard is the concept of "zero depth." It recommends that whenever the ground surface is broken, regardless of the depth (zero depth), controls must be implemented to prevent damage.

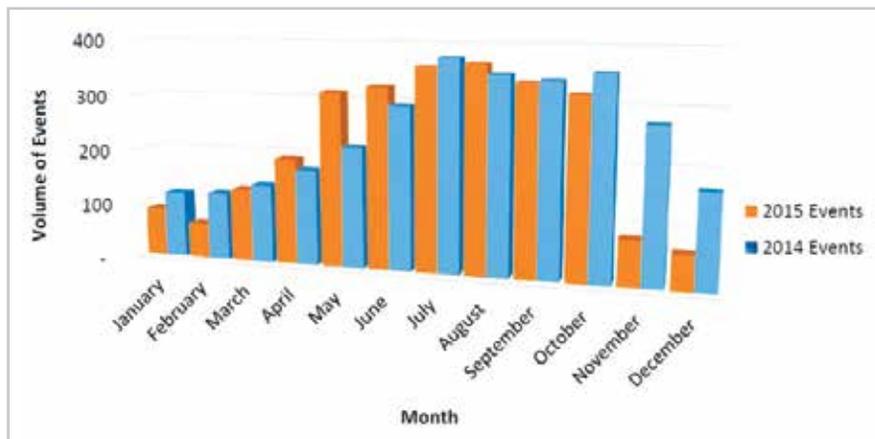
Zero depth, along with other ground disturbance best practices, have been consolidated into the ABCGA ground disturbance for supervisors' standard (known in the past as Level 2, and now known as 201). This standard defines the training requirements supervisors need to promote effective ground disturbance practices and damage prevention. The ABCGA endorsement of a ground disturbance for supervisors training course provides peace of mind for employers, purchasers of ground disturbance services and operators of

buried facilities. The ground disturbance community can be confident that certificate holders have received consistent and accurate information that meets the industry-approved standard.

WHAT IS DIRT?

DIRT is the result of the efforts of the Common Ground Alliance (CGA) to gather meaningful data about buried asset damage events. An event is defined as "the occurrence of downtime, damages and near misses." DIRT allows industry stakeholders to submit data anonymously to a comprehensive database that is used to analyze the factors leading to events. The Western Canada 2015 DIRT Report provides detailed analyses and recommendations relating to the buried asset damage events reported in British Columbia, Alberta and Saskatchewan.

2014-2015 events (per the 2015 DIRT Report).



NEXT STEPS FOR EMPLOYERS

1. Ensure that you have a ground disturbance code of practice.
2. Ensure that your employees receive the appropriate training.
3. Ensure that you submit a locate request and have all buried facilities marked prior to beginning any ground disturbance project (zero depth is a best practice).
4. In the unfortunate event that you do damage, or nearly damage, a buried pipe or cable, complete an anonymous DIRT report so that we as an industry can create better safety practices for the future.

ABOUT SAFETYVANTAGE

The SafetyVantage founders have been members of the ABCGA (previously Alberta Damage Prevention Council)

for more than nine years. Throughout our involvement, we have been strong proponents of, and active participants in, the development of an online course standard for the industry. With a continuously changing industry, companies must look at new and innovative ways to cut costs and improve employee empowerment and engagement. Online training enables companies to significantly lower costs per trainee, provides anytime-anywhere access to content, results in better content retention and eases the deployment of training to a large workforce.

SafetyVantage provides multi-course subscriptions (including ground disturbance for supervisors) starting at as little as \$5 per employee per month. More information on the SafetyVantage

subscription plans can be found at SafetyVantage.com.

This story was previously published on SafetyVantage's website, SafetyVantage.com.

LEGAL DISCLAIMER: SafetyVantage provides information about topical OH&S issues to assist existing and potential customers to cope with their own OH&S needs. SafetyVantage believes that the information and guidelines provided are consistent with industry practices at the time the information was compiled. It is not intended to be legal information or legal advice. Although we go to great lengths to make sure our information is accurate and useful, we recommend you consult a lawyer if you want professional assurance that our information, and your interpretation of it, is appropriate to your situation. ●

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Grande Prairie mayor Bill Given (above) and county reeve Leanne Beaupre (below) proclaiming NAOSH week alongside NAOSH committee representatives.



NAOSH Week to promote **IMPORTANCE OF OCCUPATIONAL SAFETY AND HEALTH**

By Amanda Hussey, CRSP, NCSO

NAOSH BEGINNINGS

The Canadian Society of Safety Engineering hosted an annual Health and Safety Week (COHS) between 1986 to 1996. As NAFTA (North American Free Trade Agreement) was being implemented, Canada, the United States and Mexico included discussion on Workplace Health and Safety. The CSSE was approached for permission to expand on the COHS week format and include the U.S. and Mexico.

After multiple discussions between Labour Canada and the CSSE COHS Committee in 1995, a proposal was developed and accepted in September of 1996 at the NAFTA meeting. The CSSE adopted the North American concept, NAOSH. NAOSH Week was officially established and would begin in June of 1997.

NAOSH IN THE PEACE RIVER COUNTRY

Every second year, the CSSE Northwestern Alberta Chapter Members create a NAOSH Week Event organizing committee and host a one-day trade show and seminar in Grande Prairie, Alta. The event has grown substantially in the past 10 years from less than 100 attendees to more than 200.

Last year the CSSE Northwestern Alberta Chapter received a \$10,000 OHS Grant from the Government of Alberta, allowing the small city to bring in four keynote speakers and reduce the price of the tickets from \$75 to \$50 general admission and \$40 for CSSE members during a recession.

The four keynote speakers were Andrew Brash of CLIMB Mount Everest Rescue, Dennis Shinski of the Suicide Prevention Resource Centre's Tough Enough to Talk About It program, Earl Peters discussing medical marijuana in the workplace and John Brix of Emergency Services discussing PTSD and the power of no.

This event relies heavily on the organizing committee, local business donations, sponsorships, speakers reducing their regular fees and the support of the city's mayor and county reeve signing official proclamations to declare NAOSH week within the community.

Most of the money (approximately \$22,000) is used to pay for the facility rental; catering company; speakers; radio, newspaper and billboard advertising; and ticket printing costs. After all the bills are paid we donate the remainder, approximately \$8,000, to local charities such as the Suicide Prevention Resource Centre, Grande Prairie and Area Safe Communities, Salvation Army (families in need at Christmas), Sunrise House (Grande Prairie Youth Emergency Shelter Society) and Secret Angels (families in need at Christmas).

The next NAOSH event in the Peace Country will be held in April or May of 2019.

Amanda Hussey is the chapter chair for CSSE Northwestern Alberta Chapter and director at Clutch Safety Solutions Ltd. She can be reached at amanda@clutchsafety.com. ●

North American Occupational Safety and Health, or NAOSH, week continues to communicate and promote the importance of preventing injuries, illnesses and incidents in the workplace, at home and within the community. The 2018 event will take place from May 6 to 12. It encourages employers to "make safety a habit," and focus on "people, purpose and passion" – the slogans for NAOSH week. Events take place across North America for employers, employees, the general public and the NAOSH partner organizations.

There are five Safety and Health Week partners from Canada, the United States and Mexico that champion the event: the Canadian Society of Safety Engineering (CSSE), the Canadian Centre for Occupational Health and Safety (CCOHS), Threads of Life (Association for Workplace Tragedy Family Support), the Government of Canada and the American Society of Safety Engineers (ASSE)

The Canadian Society of Safety Engineering: **PROTECTING WORKERS SINCE 1949**



By Amanda Hussey, CRSP, NCSO



The Canadian Society of Safety Engineering (CSSE) is the largest national and leading health, safety and environmental organization for safety and environment professionals in Canada.

We work with industry, regulatory agencies and other safety organizations to promote a greater awareness of health, safety and environmental issues within industry, communities across the nation and around the world.

The CSSE began in 1949 by a group of passionate individuals dedicated to preventing incidents. It began provincially and grew to include the rest of the country. Each region and/or major city has its own chapter comprised of volunteers elected as the executive. There are 36 chapters, 10 national committees and approximately 5,000 members across the globe.

The Northwestern Alberta Chapter, based out of Grande Prairie, Alta., has a membership of over 200 practising health, safety and environment professionals from Northwestern BC and Northwestern Alberta.

Our vision is that “the CSSE will shape the safety profession in Canada by working collaboratively with its members and partners”.

EXECUTING CSSE’S VISION, MISSION AND GOALS

The CSSE Northwestern Alberta chapter meets once a month for a Lunch and Learn – a professional-development and industry-awareness gathering. Each month a volunteer speaker attends to discuss a safety, health and/or environmental topic related to issues in industry. There are regulatory members such as investigators, inspectors and representatives from WorkSafeBC, Alberta Labour Occupational Health and Safety, Alberta Transportation, RCMP, and the local fire halls that keep members up to date on monthly regulatory directives and statistics.

For example, in February we hosted Road Safety at Work, a non-profit organization managed by the Justice Institute of British Columbia and funded by WorkSafeBC. The organization presented for 60 minutes on winter driving, a sneak peek into the four-hour seminar it is hosting.

In industry, there is a concern, risk and statistical analysis showing an increase in opioid overdoses (involving drugs such as fentanyl) within northern Alberta communities and work forces. In response to the growing opioid crisis, an overdose prevention nurse from HIV North offered education and training on the administration of Naloxone (brand name Narcan), a medication

used to reverse the effects of an opioid overdose.

Every second year, the CSSE Northwestern Alberta Chapter hosts a one-day safety seminar and trade show in Grande Prairie, Alta. as a tribute to the North American Occupational Health and Safety (NAOSH) Week. It takes almost an entire year to plan the event with countless amounts of volunteer time from dedicated chapter members. The proceeds raised are donated to local charities within the community as we believe money raised within the northern communities should stay within the northern communities.

THE IMPORTANCE OF CSSE MEMBERSHIP

Through the CSSE you have access to the knowledge, support and professional guideline documents of Canada’s largest network of health, safety and environmental practitioners.

The CSSE supports formal and continuing education through a Certified Health and Safety Consultant (CHSC) designation. This program, the annual Professional Development Conference (PDC) hosted by our national CSSE Group and the Chapter NAOSH seminars, in conjunction with your membership, are supported and receive credit from the Board of Canadian Registered Safety



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CSSE NORTHWESTERN ALBERTA CHAPTER EXECUTIVE:

Chair: Amanda Hussey, Clutch Safety Solutions Ltd.

Past chair: Robert Lefin, Midwest Surveys

Vice chair: Duane Goretzky, Husky Energy

Second-vice chair: Praveen George, Blue Line Energy

Treasurer: Rachael Ingram, Clutch Safety Solutions Ltd.

Media and communications co-ordinator: Angie Smith, Powerstroke Well Control

Secretary: Jennifer Hoban, Beyond Energy

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The CSSE also offers partnerships for discounted liability and auto insurance, health and dental group benefit plans, hotel rates and a free membership to the *Contact Safety Magazine* and the *Canadian Journal of Occupational Health and Safety*.

MAKING CONNECTIONS

Why do I love and believe in this group as a person and not just as the chapter chair? I began with the CSSE Northwestern Alberta Chapter when I was just starting out in my safety career in my early 20s. A colleague of mine, past chair Robert Lefin, encouraged me to attend. At first, I didn't think I had time to attend but after simply going to one meeting I was hooked. The spirit, atmosphere, mentorship and vast knowledge of the members who attended were exactly what my safety

soul was in search of and needed.

I was positive that if myself, a co-worker, family member or colleague ever had a question I was unable to answer, regardless of the industry or situation, there was always someone within this group who would be able to answer it. And, so far, I have never been disappointed.

After only my first year, Lefin nominated and convinced me to become the chapter secretary. I was leery about adding more to my plate as a full-time professional, full-time student, single homeowner and dog mom, but the opportunity for additional career support, leadership experience and opportunity to be a part of the elite executive once again called out to my safety soul.

After three years as the chapter secretary, Lefin and Duane Goretzky, both past chairs, nominated and convinced me to become the chapter

chair. I thought to myself, "Oh goodness Amanda you have really piled it on this time!" However, I can honestly say that the dedicated support, mentorship, encouragement, passion and leadership skills I have received from these two individuals has helped me substantially grow, not only as a professional but as a person.

I can truly say I would not be where I am in my career today nor would I likely own my quickly-growing accredited employment testing and HSE consulting business had it not been for the business relationships, experience, mentorship and personal support I have received from being a part of this wonderful organization and of course all my wonderful colleagues who make up the CSSE Northwestern Alberta Chapter.

This isn't just a group to me; this is my safety family. I have developed many personal friendships within this group, for which there simply aren't words to describe how grateful I am during this rollercoaster we call life.

For additional information on how to sign up to be a member, be a part of the NAOSH organizing committee, attend a NAOSH event or attend a monthly CSSE Meeting, email amanda@clutchsafety.com or admin@clutchsafety.com.

Amanda Hussey is the chapter chair for CSSE Northwestern Alberta Chapter and director at Clutch Safety Solutions Ltd. She can be reached at amanda@clutchsafety.com. ●



Back row (left to right): Robert Lefin (past chair), Samantha Newhook (SPRC), Eileen Kent, Ivan Mogck and John Oman.
Front row (left to right): Praveen George (second vice-chair), Megan Bridger, Jennifer Hoban (secretary), Angie Smith (media & communications co-ordinator), Amanda Hussey (chair), Melody Mateev and Duane Goretzky (first vice-chair).

Five steps to the **BEST LATH**

By Dan Labrecque, Dan the Stickman

As a lath manufacturer, our focus is providing surveyors and locators the best material for their work. Our goal is to make ordering and delivery easy, quick and efficient, exceeding your expectations. We guarantee a top product that not only represents our high standard but also shows off your work in the field long after you're gone. Ensure you choose a lath supplier that makes it easy to order your lath, provides you with a safe product and makes the entire process effortless.

which causes the lath to dry out and become brittle. As the locator knows, wet lath is challenging to write on and will freeze together in winter. A great way to get around these problems is to ensure your bundles are wrapped and weather tight. This also ensures the paint vibrancy remains and the bundles stay clean, dry and easy to write on.



ACCESSIBILITY

Choose a supplier that can deliver the product on time, in the available colours and sizes you need and in quantities large enough. Preferably, choose a company that can deliver lath to you and offers you options of multiple pickup locations (storage, warehouse, etc.). You can have the best product, but it's also great to have a supplier that can put lath in your hand when you need it.

STORAGE

Once you have your product, ensure that it is stored well and keeps its colour and moisture until you need it. Store it under cover and away from heat,

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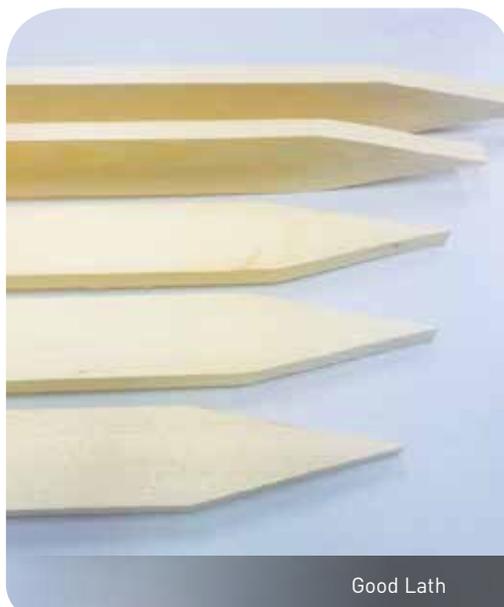
Red Rot



Big Knots



Split Lath



Good Lath

ground. Ask your supplier if they are willing to back up their product to ensure your full satisfaction.

I have personally always preferred paying extra for a product or service that will last and hold up to expectations in contrast to restarting the job due to unsafe, failed or low-grade material.

QUALITY

What is an effective way to visually check for good or bad lath? What causes a lath to break or hold strong?

At Dan the Stickman, we don't sell any lath that has red rot, white specks, dangerous cracks or any knot bigger than half the diameter of the lath, as a hammer hit on a lath with these defects can snap, disintegrate or split your stick and send a sharp long spear in your hand. Any one of these compromises the safety time and cost for you and your company. Look for clear, straight grain wood that is uniform in colour and has a uniform moisture content.

PARTNERSHIP

There are five great questions to ask yourself about your lath provider:

1. Is it a great company to partner with and promote your own company?
2. Is it growing and improving its services and products?
3. Are staff checking in for your feedback?
4. Is the company interested in seeing you succeed?
5. Does the provider share the same values as your company?

This article should provide you with helpful tips in keeping your job safe, cost effective and professional. All the best in the great professional work you do putting lath in the ground. ●

COST

There are many ways to get lath at special discount prices, however your end cost is most important; make sure you can depend on each stick to do the job right. Factor in your time and wages when comparing lath products. The time and labour required to do a job is a far greater cost than what is saved in purchasing and using a lesser quality product. As a line locator once explained, the cost of lath on a job was only two per cent of the job's overall cost. A few extra dollars up front will far outweigh the money and time required to replace a broken stick with a new one, flag it, write on it and put it in the

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Subsurface utility engineering and utility locating: **WHAT'S THE DIFFERENCE?**

By Ophir Wainer, Lawrence Arcand and Blaine Hunt

Subsurface utility engineering (SUE) and utility locating may appear to be similar but each serve a different purpose. In reality, both may utilize electromagnetic (EM) locating equipment to identify the location of underground utilities, but the similarities generally end there.

The practice of subsurface utility engineering was formalized with the creation of ASCE 38-02 – the Standard Guideline for Collection and Depiction of Existing Subsurface Utility Data in 2002. It promotes the use of field investigations and records research to determine the accurate location of underground infrastructure. Most importantly, the ASCE 38-02 provides a process to identify the quality of the results, and allow users to determine the degree of certainty of the information depicted. The standard was created to provide reliable information to engineers to aid in the design process, plan for utility relocations, reduce overall project costs and aid in improving project safety during construction.

Utility locating has been around since infrastructure has been buried. The utility locates or layout was once a survey function and did not have a great deal to do with infrastructure protection, rather for layout of ongoing infrastructure projects. A large push to have utilities buried occurred and utility locating for damage prevention as an industry took shape. Third-party contract locating began in the late 1980s when employees at a local gas distribution company went on strike and the contracted locate service provider (LSP) industry was born. Private locates were brought to the forefront in the late 1990s when utility providers stopped assuming liability of their plant past the demarcation points and the private locate industry evolved for damage prevention on private utilities. In most regions of North America, one-call services are a government-mandated requirement prior to any excavation and are governed by municipal bylaws.

The EM locator is a go-to tool in both industries, but its

application and end results are very different. When used in the damage prevention industry it is called locating, but when used in the SUE industry it is referred to as designating (as defined in ASCE 38-02). The EM locator determines the location of magnetic fields either naturally present on conductors or through induction with the use of transmitters. The location of the buried conductive plant is marked on the surface of the ground. The utility locator will place marks on the ground using color-coded paint specific to each utility. The marks for a SUE investigation are placed using pink paint (temporary markings) to avoid confusion with locating markings. The interpretation of the signals and an understanding of the geophysical properties of the earth and conductive elements is key to producing reliable data in both industries.

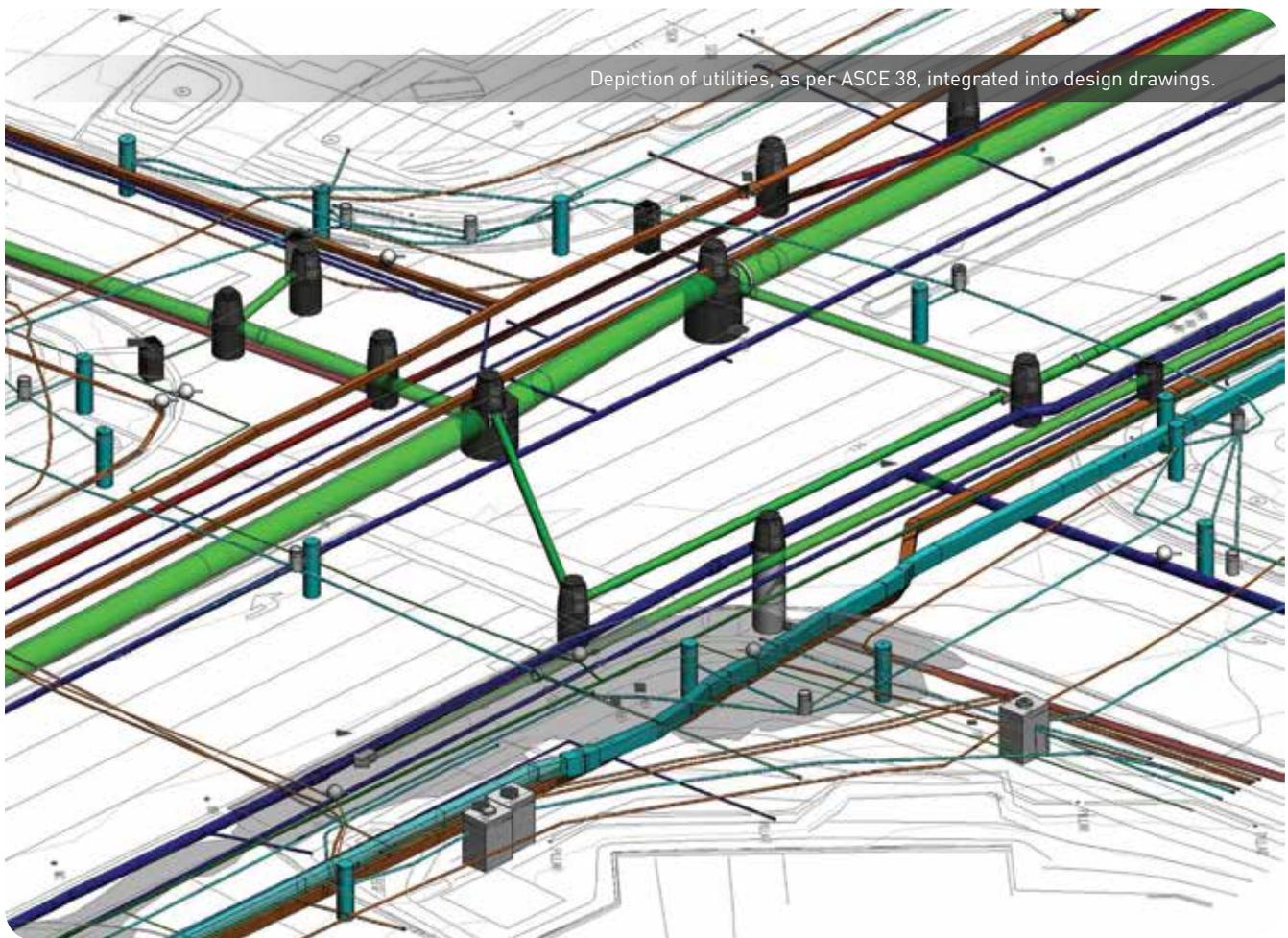
The SUE investigation will use EM locators as well as a variety of other geophysical technologies to determine the location of known utilities and unknown conductive signals during the designation phase. For a SUE investigation, the information collected in the field is surveyed, and integrated using CAD software onto a utility mapping drawing. Other site investigations and field observations related to the utility infrastructure that may be present are collected from the site. The SUE investigation includes a review of the record information (construction drawings, for example) and resolves discrepancies that may be found. The SUE utility-mapping drawing includes all utilities either identified in the field or identified on records, even if they could not be designated in the field. In many projects the construction methods and sequencing may be reviewed to better understand the presence of abandoned or removed utilities. The engineer responsible for the investigation reviews all information and makes a professional judgement as to the quality of the information and how to depict it on the drawing. The distinction between how utilities are identified is made using quality levels according to ASCE 38-02. To make

this distinction the engineer confirms the validity of the designating marks and the methods used, the survey data, compares record drawings and checks the probability of the alignment based on known installation practices. The engineer will also provide a SUE report which outlines the methodology used for the investigation (including geophysical equipment used), the findings of the investigation and how they may impact the project. Often, there will also be recommendations for any additional investigations suggested to further identify the location of utilities in critical locations. The focus of additional investigations is specific to the project. Once construction begins, the results of the SUE investigation may help the contractors understand the risks associated with the buried utilities prior to excavation. Private/public locates would still be required prior to any physical excavation.

Utility locating (one-call or private locating) is primarily focused on public safety and damage prevention during construction. Utility locating allows excavators to understand the location of the known underground utilities in the field, which is a necessity for safe excavation. In one-call or private

locating, the EM locator is used to verify alignments of known utilities shown on the utility company records. In many jurisdictions, they are performed by third-party contract locate companies. The utility locator places marks on the ground using color-coded paint to indicate the horizontal alignment of the known utility and creates a no-dig zone, stating that a utility lies beneath the marked area. In the damage prevention industry, the information is most commonly conveyed on a locate sheet with a sketch showing the specific utility in the target area. If a locator is responsible for multiple utilities, multiple utilities may be shown on the same sketch. Sketches are commonly provided on site or can be transmitted via email. Typically, once a locate is completed, there is no independent technical or practical review of the sketch produced prior to providing it to the end user, which is the contractor.

Although their purposes and executions are different, both subsurface utility engineering and one-call or private utility locating provide important valuable information for their end users. One call and/or private locate are commonly mandatory



Depiction of utilities, as per ASCE 38, integrated into design drawings.

and even legislated in some jurisdictions. They are required and necessary even when a SUE investigation is completed. SUE is recognized as a best practice in the Canadian Common Ground Alliance Best Practices Manual, the Transportation Association of Canada's Guideline for the Coordination of

Utility Relocations and other key documents. SUE is a valuable tool for any engineer to manage utility risks on their project.

Together SUE and one-call or private utility locating are an effective one-two punch that can be used to ensure your project's overall success. ●



Ophir Wainer is responsible for developing new business and leading the strategic direction for T2 Utility Engineers in major markets across Canada. Ophir has more than 20 years of experience in utilities and subsurface utility engineering. He is a member of the CSCE, a board member of the NASTT BC chapter, a member of CATT committees and involved in CERIU. He is an experienced speaker on both subsurface utility engineering and damage prevention, and has presented and moderated at various conferences and training seminars.



Lawrence Arcand is a graduate of Queen's University with more than 20 years of experience. Lawrence is a licensed professional engineer in Ontario, Manitoba, Saskatchewan, Alberta and British Columbia. In his current role as president of T2 Utility Engineers, he is responsible for the overall operations of the company across Canada and internationally. Lawrence was a 10-year board member of the Ontario Regional Common Ground Alliance (ORCGA). He sat on the technical committee of the CSA S250 – Mapping of Underground Utility Infrastructure, is co-chair of the TAC Public Utilities Management subcommittee and is co-chair of the Ontario Public Works Association – Right of Way Management committee. He has managed numerous SUE and UC projects across Canada, written several articles and papers, and has been a guest speaker regarding utility engineering at several events both in Canada and internationally.



Blaine Hunt is an engineer with more than 20 years of project management experience in the consulting engineering and industrial manufacturing sectors. He has successfully led both large and small-scale multi-faceted projects from initial planning, design, construction and installation phases through to launch and steady-state operations in complex, time-sensitive environments. He is a licensed engineer in Alberta and Ontario.

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Direct Assessment Methodology. These surveys, which may be conducted separately or simultaneously, can be used to locate and pinpoint coating defects or identify shorts made by contacts with other structures. Depth of cover and GPS positional data is also captured.

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Le système peut être utilisé pour procéder à des inspections ACCA et ACVG, conformément au document normatif ANSI/NACE SP0502-

2010 Standard Practice for Pipeline External Corrosion Direct Assessment Methodology. Ces inspections peuvent être menées séparément ou simultanément et elles servent à localiser et définir les défauts des revêtements ou cerner les courts-circuits provoqués par les contacts à d'autres structures. La profondeur de la couverture et les données de positionnement GPS sont également saisies.

Le PCMx propose deux émetteurs de courant continu. Le nouveau Tx-25PCM, un émetteur léger de petite taille, fournit jusqu'à un ampère de courant de sortie. Il peut fonctionner avec l'aide d'une batterie rechargeable incorporée ou d'un branchement sur le secteur, ce qui le rend particulièrement adapté aux courtes inspections des réseaux de distribution. Le Tx-150PCM peut fournir

jusqu'à trois ampères de courant de sortie, ce qui le rend idéal pour inspecter les longues lignes de transmission.

PCM Manager, une application mobile d'accompagnement Android, permet de visualiser les résultats sur place sous forme de graphique, ce qui offre aux opérateurs sur le terrain les meilleurs renseignements possibles. Une version pour PC de PCM Manager est également disponible pour réaliser des analyses et des graphiques supplémentaires hors ligne.

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PHISHING AND SOCIAL ENGINEERING FRAUD

Phishing or social engineering emails are built on a simple premise. Hackers access sensitive information – the kind of information only the victims would know – and then use this to convincingly impersonate a company’s CEO or other internal employee, client, customer or supplier. These emails usually fall into two categories: those targeting data or those targeting money.

You may have had the phone call at home from “Microsoft Security” saying it’s received alerts from your computer for the last couple of weeks and it may be a virus. The person on the other line will ask you to start up your computer and then go to their website to download a fix.

Maybe it’s the very authentic looking email from PayPal or your bank advising you that there is a problem with the authorization under your account and asking you to log in with your current password.

Or, the fraudsters may figure out from your website who oversees who in your organization. Then, they impersonate that higher authority and direct a subordinate to transfer funds or divulge confidential information. That employee, acting in good faith, in the belief that he or she is assisting their boss or the president, sends the wire transfer.

These are all forms of phishing or social engineering fraud, also referred to as impersonation fraud. The problem, of course, is that the funds are supplied willingly. It is a rapidly growing and costly problem.

DOES MY STANDARD INSURANCE POLICY COVER THIS?

No, basic property insurance responds to perils such as fire, windstorm or theft of physical property versus any type of intangible data.

HOW ABOUT OUR BUSINESS CRIME INSURANCE?

Again, the answer is no for a number of reasons.

While we’ve always recommended that businesses may not want to rely on the minimal limits of the automatic extensions for employee theft and money and securities provided in some insurance packages, even a more robust and separate crime policy is going to fall short when it comes to phishing or social engineering fraud for several reasons:

- There is normally an exclusion where you knowingly have given or surrendered money, securities or other property.
- The computer fraud extension is for unauthorized entry into a computer system. If the fraudster is given the information, it is not unauthorized.



▪ Fund transfer fraud, another crime policy extension, is for the fraudulent transfer by a third party between an insured and their financial institution...without such organization's knowledge or consent.

SO, WHAT ARE MY OPTIONS TO HAVE THIS COVERED?

One option would be to attach a social engineering fraud insurance endorsement to your crime policy to help protect you from the loss of vendor or supplier impersonation, executive impersonation and client impersonation. It should be noted that it will not insure against a third party impersonating your bank. Those frauds are normally the easiest to verify with a quick phone call. Currently, only a handful of insurance companies have developed endorsements for this coverage. We can help advise you on the ones most appropriate for your organization.

Another option is a robust cyber risk policy as some standard cyber policies do not address this very well. A deluxe cyber

policy contains explicit coverage designed to address this growing threat of phishing or social engineering by providing protection against theft even when the transfer is made with the insured's consent.

- Educate your employees. Senior management should make it clear to employees that the company will never hold it against them if they do not make a transfer because they are unable to verify the authenticity of the request. This way, employees will be more likely to err on the side of caution when they receive an urgent data or fund transfer request.
- Hackers often include fraudulent phone numbers within phishing or social engineering emails, which is why it's good to look up the number separately and use that instead of any provided in a text or email.
- Document all such confirmations in writing and include the date and contact information of the employee at the original source. ●

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For the underground line-locating industry, we have aligned ourselves with premier manufacturers and specialize in three main product groups: Presco stake flags, Aervoe and Seymour inverted paint and lath by Cypress Stake and Lath.



Presco high-quality solid marking flags can be custom printed to enhance your communication to fit the job at hand. We stock all solid colours as well as many custom-printed and logo flags for line locators, utilities, gas co-ops, forestry, seismic, agriculture, etc. Our Presco stake flags are available in both steel and plastic shaft. For custom-printed stake flags, we offer a low minimum quantity of

one box with no set-up or art fees. We also carry Presco arctic-grade roll flagging, barricade tape, underground detectable and non-detectable tape, and aerial paneling/targets. Motion Canada stocks most of these items for next-day delivery to you.



Aervoe inverted solvent-based marking paint – both the high-end survey grade and the more competitively priced construction grade – is stocked in our distribution centres and branches. The survey grade offers marks that will last up to six months and is non-freezing (operational to -10 C). The construction grade comes in the same large 20-oz. cans with marking lasting up to three months.



Seymour “marker” inverted water-based paint is an excellent choice for those that prefer water-based products. Our Seymour paint is where quality meets price; a premium pigment-packed product that gives you 20 per cent more marking per can at a great price. We also stock Seymour marker paint in solvent base. Both water and solvent base come in the large 20 oz. cans.



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Motion Canada can also supply you with a full line of field, safety and industrial equipment along with a variety of value-added services. But our primary focus in the field-supply segment of our business is to become the premier Canadian supplier of inverted paint, stake flags and lath to the underground line-locating industry. Visit MotionIndustries.com and see our vast offerings.

Motion Canada is a proud member and supporter of CAPULC, and we look forward to working with our line-locating customers.

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