



Tunnelling Association of Canada
Association canadienne des tunnels

2021 ANNUAL GENERAL MEETING

Tuesday, October 19, 2021



Tunnelling Association of Canada Association canadienne des tunnels



Erik Eberhardt

**President
Tunnelling Association of Canada**



Tunnelling Association of Canada

Association canadienne des tunnels

ITEM

PRESENTER

- | | |
|--|--------------------------|
| 1. Welcome and Introductions | <i>Erik Eberhardt</i> |
| 2. Acceptance of the 2020 AGM Minutes (<i>motion</i>) | <i>Erik Eberhardt</i> |
| 3. President's Report | <i>Erik Eberhardt</i> |
| 4.1 TAC's Response to COVID-19 | |
| 4.2 Special Projects | |
| 4.3 Engineering Institute of Canada | |
| 4.4 ITA, Nordic Forum, America's Forum | |
| 4. 2021 Membership Report and Targets for 2022 | <i>Steve Skelhorn</i> |
| 5. Treasurer's Report | <i>Michelle Richards</i> |
| 6.1 2020 Financial Statements and Auditor's Report | |
| 6.2 Appointment of Auditor for 2021 Financials (<i>motion</i>) | |
| 6.3 2021 Financial Forecast & 2022 Budget (<i>motion</i>) | |
| 6. 2022 TAC Board of Directors (<i>motion</i>) | <i>Rick Lovat</i> |
| 7. Regional Reports | <i>Steve Skelhorn</i> |
| 8. Young Members Report | <i>Nichole Boulton</i> |
| 9. Other Business | |
| 10. Next Annual General Meeting | <i>Erik Eberhardt</i> |



Minutes of the 2020 AGM

The draft minutes of the November 6, 2020 Tunnelling Association of Canada Annual General Meeting are posted on the TAC website at

https://www.tunnelcanada.ca/agm_minutes.php

***Motion: Moved by Erik Eberhardt, seconded by Andre Solecki,
that the minutes of the 2020 AGM be approved.***



2021 Board of Directors

OFFICERS

Erik Eberhardt – President

Rick Lovat – Immediate Past President

Bruce Downing – Vice President West

Steve Skelhorn – Vice President East

Michelle Richards – Treasurer

Andre Solecki – Secretary

DIRECTORS

***Stephanie Robillard – Director, British Columbia
Director, Alberta (vacant)***

Jason Mann – Director, Manitoba and Prairies

Dan Ifrim – Director, Ontario

Jean Habimana – Director, Québec and Maritimes

Nichole Boulton – Director

Andrew Caruana – Director

Mark Diederichs – Director

Connor Langford – Director

Boro Lukajic – Director

Leila Sunderani – Director

Seamus Tynan – Director



President's Report

- **TAC's Response to COVID-19**
 - **TAC 2020-One: Return to in-person events, incl. TAC Covid safety measures/protocols**
 - **Successful webinar series led by TAC-ym; in parallel, will be looking at a limited number of in-person events (Santa Barbara, New Year's) depending on government public health measures**



TACym Webinar Series



President's Report

• Special Projects

Completed



In Progress



Proposed (New)

- A register/database of Canadian tunnels and tunnelling projects (under construction, planned, etc.)
- Other suggestions from membership



President's Report

- **ITA, Nordic Forum, Americas Forum**

- TAC has helped lead a series of reforms to ITA governance, including the formation of a Governance Council tasked with conducting organizational reviews and changes to how WTC host cities are selected, and events organized.
- Under these new rules, TAC is planning to submit a bid for WTC 2026 to be hosted in Montreal.
- The next WTCs: 2022 Copenhagen, 2023 Athens, 2024 Shenzhen.
- The ITA continues to remain active with key initiatives like the Working Groups. TAC members are invited to get involved and should contact us if they are interested in being a TAC representative for a particular ITA Working Groups .



President's Report

- **Engineering Institute of Canada**

- TAC is a member society of the Engineering Institute of Canada (EIC). The EIC is a federation of 14 technical/engineering societies.
- As a member, TAC is eligible to nominate members for EIC awards and honours, such as Fellows of the EIC and the Julian C. Smith Medal and K.Y. Lo Medal recognizing significant engineering contributions to Canada and internationally, respectively.
- TAC's first nominee for the FEIC honour, Rick Lovat, was selected by the EIC for 2021.
- The EIC also participates in the Bacon and Eggheads breakfast talk series, which focusses on connecting Parliamentarians with experts in science and engineering.



Membership Report

TAC Membership Update

Presented by:

Steve Skelhorn, Vice President East

Contributions by:

Wayne Gibson, TAC Administrator



Membership Report

Current 2021 Membership

As of October 1, 2021, total TAC membership included 385 individuals and firms broken down as follows (with a comparison to the figures at last year's AGM):

➤ Individual Members	266 (288)	decrease of 22
➤ Corporate Members	67 (59)	increase of 9
➤ Student Members	37 (46)	decrease of 9
➤ Retired Members	15 (11)	increase of 4

In 2020, total membership was 404 – our current count of 385 represents less than a 5% year over year decrease. This is a smaller decrease than occurred from 2019 to 2020, suggesting that the impacts of COVID-19 on membership have likely run their course.

Like TAC experienced in 2020, it is encouraging to see Corporate membership continuing to increase – a 15% growth over last year's number.



Membership Report

In 2022, the goal is to increase membership to over 450 individuals and firms, which will return the count to slightly below the December 2019 figure:

➤ Individual members	300
➤ Corporate members	70
➤ Student members	70
➤ Retired members	15

All members, and particularly corporate members, are asked to ensure their colleagues and staff who should be TAC members renew or sign up in 2022.



Membership Report

Membership benefits in 2022 will include:

- Subscription (six issues annually) to *Tunnelling Journal / Canadian Tunnelling*, TAC's new magazine, developed and written by TAC and dedicated to promoting and advancing the tunnelling industry in Canada.
- Access to TAC conference proceedings and preferred member prices for the 2022 TAC Workshop
- Access to electronic documents from other conferences and workshops sponsored by TAC
- Access to local chapter events at preferred TAC member prices
- Regular TAC and chapter E-News on society updates/events and news of other association tunnelling events, such as the World Tunnel Congress

Corporate membership includes the above benefits (for one individual) plus:

- Logo and hyperlink to firm from the Corporate Members page on the TAC website
- Recognition of corporate membership at least once annually in *Tunnelling Journal / Canadian Tunnelling*
- Dedicated financial support for TACym events



Membership Report

With the increased annual administrative costs to provide *Tunnelling Journal / Canadian Tunnelling* to members, the TAC Board of Directors has voted on a proposed increase in membership dues for 2022:

Corporate Member:	\$700.00 per year
Individual Member:	\$100.00 per year
Retired Member:	\$ 30.00 per year
Student Member:	\$ 12.50 per year

Motion: Moved by Erik Eberhardt, seconded by Steve Skelhorn, that TAC's 2022 fees for each class of membership be set at \$700 Corporate, \$100 Individual, \$30 Retired, \$12.50 Student and \$0.00 Honorary.



Financial Report

2020, 2021 and 2022 Financial Update

Presented by:

Michelle Richards, CPA, Treasurer

Contributions by:

Wayne Gibson, TAC Administrator

2020 Auditor:

Bob Adam, CPA



2020 Balance Sheet

Tunnelling Association of Canada

Statement of Financial Position

		Dec 31, 2019	Dec 31, 2020
		x \$1,000	
Assets	Cash and Short Term Investments	420.7	411.6
	Accounts Receivable	1.5	0.0
	Prepaid Expenses	25.6	12.3
TOTAL ASSETS		447.8	423.9
Liabilities	Accounts Payable and accrued liabilities	22.9	10.1
	Deferred Revenue (Membership Dues)	19.8	14.4
TOTAL LIABILITIES		33.7	24.5
Equity	Retained Earnings, Beginning of Year	410.3	414.1
	Net Period Earnings (Loss)	3.8	-14.7
Total Equity		414.1	399.4
TOTAL LIABILITIES & EQUITY		447.8	423.9



2020 Income Statement

Tunnelling Association of Canada

Statement of Operations

	Dec 31, 2019	Dec 31, 2020	to Sep 30, 2021
	Revenue (x \$1,000)		
Conference, Workshop and Event Revenues	50.6	1.1	0.0
Membership Fees	52.5	51.5	53.2
Donations/Sponsorships	31.0	6.0	2.0
Interest	0.2	3.3	1.6
Total Revenue	134.3	61.9	56.8
	Expenses (x \$1,000)		
Professional Fees	32.0	28.9	21.7
TAC Conference/Workshop	26.2	0.0	0.0
Chapter and Other Events	21.1	5.2	0.7
Scholarships and Awards	18.0	26.3	18.2
National Office Overhead	17.5	13.2	8.1
Website Revitalization Project	6.9	0.0	0.0
History Book Project	8.8	3.0	12.5
Total Expenses	130.5	76.6	61.2
Deficiency of Revenues over Expenses	3.8	-14.7	-4.4



2020 Auditor's Report

ROBERT
ADAM

CPA PROFESSIONAL CORPORATION

36 BROWNLEE DRIVE, BRADFORD, ON L3Z 2K4 P: (416)567-5586 | E: BOB.ADAM.CPA@GMAIL.COM

INDEPENDENT AUDITOR'S REPORT

To the Board of Directors of the Tunnelling Association of Canada / Association Canadienne Des Tunnels

Opinion

We have audited the financial statements of the Tunnelling Association of Canada / Association Canadienne Des Tunnels (the Organization), which comprise the statement of financial position as at December 31, 2020, and the statements of operations, changes in net assets and cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Organization as at December 31, 2020, and the results of its operations and cash flows for the year then ended in accordance with Accounting Standards for Not-for-profit Organizations (ASNPO).

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Organization in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with ASNPO, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Organization's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going-concern basis of accounting unless management either intends to liquidate the Organization or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Organization's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

Summary excerpt from fiscal 2020 auditors report:

"In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the Organization as at December 31, 2020, and the results of its operations and cash flow for the year then ended December 31, 2020 in accordance with Accounting Standards for Not-for-profit Organizations (ASNPO)."

Robert Adam, CPA
Public Accountant, Licence 1-12277
Bradford, Ontario



Appointment of Auditor

Motion: Moved by Michelle Richards, seconded by Boro Lukajic,

that Bob Adam, CPA, be appointed to audit the Tunnelling Association of Canada's 2021 financial statements.



2021 Forecast and 2022 Budget

2021 Budget and Forecast Year End, and Proposed 2022 Budget

REVENUE	Budget 2021	2021 Forecast	2022 Budget
Member Fees	25,000.00	19,738.00	30,000.00
Corporate Membership	30,000.00	33,500.00	49,000.00
Investment Income	4,000.00	2,176.00	4,000.00
Workshop or Net Conference	50,000.00	85,000.00	10,000.00
Chapter and Other Events	3,500.00	500.00	2,250.00
TAC History Book Sponsorship	0.00	9,500.00	0.00
TOTAL REVENUE	112,500.00	150,414.00	95,250.00
OPERATING EXPENSES			
External Services Total	31,750.00	31,913.00	36,000.00
Chapter and Other Events (including YM)	20,650.00	9,211.00	18,800.00
National Office Overhead Total	13,900.00	8,286.00	17,900.00
Scholarships and TAC Awards Total	26,000.00	29,190.00	26,000.00
Special Projects - TAC Commemorative Book	50,000.00	87,506.00	0.00
Special Projects - Canadian Tunnelling Magazine	0.00	6,750.00	14,000.00
TOTAL OPERATING EXPENSES	142,300.00	172,856.00	112,700.00
NET INCOME/(LOSS)	-29,800.00	-22,442.00	-17,450.00



2022 Budget

**Motion: Moved by Michelle Richards, seconded by Erik Eberhardt,
that the proposed 2022 TAC Budget be approved.**



TAC Board of Directors

Election of TAC Officers and Directors

Presented by: Rick Lovat, Past President



2021 TAC Board of Directors

NAME	POSITION	RESPONSIBILITY	REGION	SECTOR	TERM
Erik Eberhardt	Officer - President	ITA Rep, Nordic Forum Rep, T&TNA Panel,	W	AC	DEC 31, 2021
Rick Lovat	Officer - Immediate Past President	Nomination Com Chair, Awards Com Chair, TAC Book	E	CS	DEC 31, 2021
Bruce Downing	Officer - VP, West	T&TNA Chairman	W	CS	DEC 31, 2021
Steve Skelhorn	Officer - VP, East	Membership, TAC Book, BTS Representative	E	CT	DEC 31, 2021
Michelle Richards	Officer - Treasurer	Budget, Cash Management, Banking	W	CS	DEC 31, 2022
Andre Solecki	Officer - Secretary	By Laws, Governance	E	CS	DEC 31, 2023
Stephanie Robillard	Director, British Columbia Chapter	T&TNA Panel	W	CS	DEC 31, 2021
Dan Ifrim	Director, Ontario Chapter	T&TNA Panel	E	CS	DEC 31, 2021
Connor Langford	Director	Scholarships	W	CS	DEC 31, 2021
Seamus Tynan	Director	TAC Book Chairman	E	CT	DEC 31, 2021
Remco Kleinlugtenbelt	Director, Alberta & Prairies Chapter	T&TNA Panel	W	CS	Resigned
Jason Mann	Director, Manitoba & Prairies Chapter	T&TNA Panel	W	CS	DEC 31, 2022
Leila Sunderani	Director	Social Media	E	CS	DEC 31, 2022
Boro Lukajic	Director	By-Laws, T&TNA Panel, TAC Book	E	CS	DEC 31, 2022
Jean Habimana	Director, Quebec & Maritimes Chapter	AFTES Representative, T&TNA Panel	E	CS	DEC 31, 2023
Nichole Boulton	Director	Young Members	W	CS	DEC 31, 2023
Mark Diederichs	Director	University Outreach, Professional Development	E	AC	DEC 31, 2023
Andrew Caruana	Director	Social Media	E	SP	DEC 31, 2023

Abbreviations: CS = Consultant, AC = Academia, CT = Contractor, SP = Supplier, E = East, W = West



TAC Directors – Election and Term

SECTION 5 – DIRECTORS

5.01 Election and Term

Subject to the articles, ***the members will elect the directors*** at the first meeting of members and at each succeeding annual meeting at which an election of directors is required, and the ***directors shall be elected to hold office for a term*** beginning ***January 1 of the year*** following the annual general meeting following the election; ***and expiring on January 1 of the year following the third annual meeting*** of members following the election.

Terms of Directors shall be staggered to provide continuity on the Board of Directors.



TAC Directors – Election

SECTION 5 – DIRECTORS

5.01 Election and Term

The **Slate of Nominees** selected by the **Nominating Committee** and **Directors** shall be submitted to the entire membership of the Corporation with the **notice of the Annual General Meeting**.

Nominees for Offices of President and Vice President shall be selected by a Nominating Committee comprised of **three (3) members**. The **Chairman shall be the Immediate Past President**.

Nominees for **other Director positions** shall be selected by majority vote of the **Directors**.



TAC Officers - Nomination

SECTION 5 – DIRECTORS

5.01 Election and Term

Nominees for offices of President and Vice President shall be selected by a Nominating Committee comprised of **three (3) members**.

The Chairman shall be the Immediate Past President.

Nominating Committee(NC)

Rick Lovat(E) – Past President, 2012 - 2014

Rick Staples(E) – Past President, 2008 - 2012

Garry Stephenson(W) – Past President, 2004 - 2008

Invited Advisors(Non Voting)

Frank Policicchio(W) – Past Vice President, 2008 – 2012

Boro Lukajic(E) – Past President, 1994 – 1998

Erik Eberhardt (W) – President, 2015 - 2021



TAC Officers Nomination 2022

Nominating Committee Recommendation to Membership



TAC Officers 2022

NAME	POSITION	REGION	SECTOR	TERMS SERVED*	TERM
Bruce Downing	Officer - President	W	CS	-	DEC 31, 2024
Erik Eberhardt	Officer - Immediate Past President	W	CS	-	DEC 31, 2024
Jason Mann	Officer - VP, West	W	CS	-	DEC 31, 2024
Andre Rancourt	Officer - VP, East	E	CS	-	DEC 31, 2024
Michelle Richards	Officer - Treasurer	W	CS	2	DEC 31, 2022
Andre Solecki	Officer - Secretary	E	CS	1	DEC 31, 2023

* : TERMS SERVED at the completion of the current term

OFFICERS



TAC Directors - Nomination

SECTION 5 – DIRECTORS 5.01 Election and Term

Nominees for **other Director positions** shall be selected by majority vote of the **Directors**.



TAC Directors 2022

Nominating Committee Recommendation to Directors
Directors to Finalize Recommendation to Membership

Mohammed AL-Bataineh	Director(AB)	W	CS	-	DEC 31, 2022
Glen Mongillo	Director	E	SP	-	DEC 31, 2022
Leila Sunderani	Director	E	CS	1	DEC 31, 2022
Boro Lukajic	Director	E	CS	>4	DEC 31, 2022
Jean Habimana	Director, Quebec & Maritimes Chapter	E	CS	1	DEC 31, 2023
Nichole Boulton	Director	W	CS	3	DEC 31, 2023
Mark Diederichs	Director	E	AC	1	DEC 31, 2023
Andrew Caruana	Director	E	SP	1	DEC 31, 2023
Stephanie Robillard	Director, British Columbia Chapter	W	CS	2	DEC 31, 2024
Dan Ifrim	Director, Ontario Chapter	E	CS	2	DEC 31, 2024
Connor Langford	Director	W	CS	2	DEC 31, 2024
Seamus Tynan	Director	E	CT	3	DEC 31, 2024

Abbreviations: CS = Consultant, AC = Academia, CT = Contractor, SP = Supplier, E = East, W = West

* : TERMS SERVED at the completion of the current term



Slate of Officers and Directors for 2022

OFFICERS

Name	Position	Region	Sector	Term
Bruce Downing	Officer - President	W	CS	DEC 31, 2024
Erik Eberhardt	Officer - Immediate Past President	W	CS	DEC 31, 2024
Jason Mann	Officer - VP, West	W	CS	DEC 31, 2024
Andre Rancourt	Officer - VP, East	E	CS	DEC 31, 2024
Michelle Richards	Officer - Treasurer	W	CS	DEC 31, 2022
Andre Solecki	Officer - Secretary	E	CS	DEC 31, 2023

DIRECTORS

Stephanie Robillard	Director, British Columbia Chapter	W	CS	DEC 31, 2024
Dan Ifrim	Director, Ontario Chapter	E	CS	DEC 31, 2024
Connor Langford	Director	W	CS	DEC 31, 2024
Seamus Tynan	Director	E	CT	DEC 31, 2024
Mohammed AL-Bataineh	Director(AB)	W	CS	DEC 31, 2022
Glen Mongillo	Director	E	SP	DEC 31, 2022
Leila Sunderani	Director	E	CS	DEC 31, 2022
Boro Lukajic	Director	E	CS	DEC 31, 2022
Jean Habimana	Director, Quebec & Maritimes Chapter	E	CS	DEC 31, 2023
Nichole Boulton	Director	W	CS	DEC 31, 2023
Mark Diederichs	Director	E	AC	DEC 31, 2023
Andrew Caruana	Director	E	SP	DEC 31, 2023

Abbreviations: CS = Consultant, AC = Academia, CT = Contractor, SP = Supplier, E = East, W = West

* : TERMS SERVED at the completion of the current term



2022 TAC Board of Directors

***Motion: Moved by Erik Eberhardt, seconded by Rick Lovat,
that the Tunnelling Association of Canada Officers and
Directors for 2022 be approved.***



Regional Reports

Presented by: Steve Skelhorn – Vice President East
Bruce Downing – Vice President West

Chapter Chairs: Jean Habimana – Director, Quebec & Maritimes
Dan Ifrim – Director, Ontario
Jason Mann – Director, Manitoba & Prairies
Stephanie Robillard – Director, British Columbia



Eastern Canada

Tunnelling Project Snapshot

The market remains strong with numerous projects keeping local contractors busy as well as attracting more international competition from the US and from around the world.

Ontario Ongoing

- Coxwell Bypass
- Ashbridge's Bay Outfall
- Toronto Island Watermain
- Scarborough Extension
- Fairbanks Silverthorne
- East West Connector

Quebec (current projects)

- Bassin Lavigne

Upcoming projects include the Montreal Blue Line in Quebec, East Brampton Watermain in Ontario as well as much awaited subway work on the Ontario line, the Scarborough extension and the Young Street Extension, The Eglinton Cross Town West, Inner Harbour Work, Taylor Massey Creek... and many others.



Eastern Canada

Chapter News

Activities of the Quebec and Ontario Chapters of the Tunnelling Association of Canada have been limited since March to online presentations given the COVID-19 pandemic. However there have been some very successful online presentations through the year including, Normet and Crosslinx, Twinning of the West Trunk in Mississauga, Underground Safety, Segmental liner grouting, And BC Hydro's Site C project.

In Ontario, the annual year-end social of 2020 was unfortunately pushed back due to Covid. For this a social is still planned for December as an in person event– Chapter Executive members are planning the site down event with diner drinks, trivia contest and door prizes. Keep checking the web site for further details.



Western Canada

BC Chapter Activity

2020		
September 24 (with YM)	Application of UAV and LiDAR Scanning Technologies to an Underground Gold Mine	Ryan Preston
December 4 (with YM)	World Tunnel Day	
2021		
January 28	Risk and Risk Management in Underground Projects	Connor Langford
March 4 (with YM)	Tunnelling on the Annacis Wastewater Treatment Outfall Tunnel	Graham Swarbrick
	The calibration of laboratory scale hydro-mechanically coupled grain based discontinuum rock models.	Madison Kennedy
April 27	BC Mingler	
May 27	Axis Mapper: An Innovative Underground Mapping Solution	Shelby Yee, Jessica Andrew and Josephine Morgenroth
September 14	Seymour Capilano Filtration Project Twin Tunnels	Charles Hunt

All events are on-line, with an online social event afterwards using Preciate. Come join us for the next event! BC Chapter: Stephanie Robillard (Chair); Jacob Nikl/Nic Poves (Event Coordinators); Connor Langford, Grant Burns, Nicole Boulton, Bruce Downing, Aaron Nickoli.

Alberta Chapter; Vacant

Prairies Chapter: Jason Mann



Young Members Report

Presented by: Nichole Boulton, Director, Young Members

Current Young Members

- **Student Members: 37 (down from 46 last year)**
- **Young Members: unknown as currently not recorded in the TAC database**

Current Social Media Outreach

- **1,152 followers on Facebook (@TACyoungmembers)**
 - **662 last report**
- **203 followers on Instagram (@tac_young_members)**
 - **110 last report**
- **Goal for this upcoming year is to ask all webinar attendees to spread the word and encourage colleagues/students to join TAC.**
- **Restart in person outreach events as public health allows.**



Young Members

Chapter	Date	Presenter(s)	# of Viewers
BC	Jan 28	Connor Langford	117
ON	Feb 25	Dan Irfrim	137
YM	March 4	Graham Swarbrick Madison Kennedy	87
YM/TAIym	March 20	Dr. Vlachopoulos	unknown
YM	April 29	Andre Solecki	51
YM	May 27	Shelby Yee, Jessica Andrew and Josephine Morgenroth	45
ON	June 17	Rebert Renaud, Maxwell MacDonald and Luis de Expana de Castro	28
ON	July 22	Andrew Cushing	174
ON	Aug 5	Mike Rispin and Ian Cadieus	unknown
BC	Sept 14	Charles Hunt	
	Nov	YOUR NAME HERE	
ITAYM	Dec 4	World Tunnel Day	

Young Member's Webinar Series

Continued initiative to provide learning while group gathers are not happening

Aimed to be a platform for Young Members to present their work and research, and to learn from other presenters.

In collaboration with the BC and Ontario Chapters, and other International YM networks

← This date still available!



Young Members

Webinar Invitation



Madison Kennedy (Queen's University)

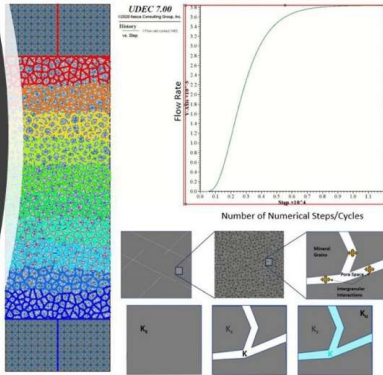
The Calibration of Laboratory Scale
Hydro-Mechanically Coupled Grain
Based Discontinuum Rock Models



Tunnelling Association of Canada
Association Canadienne des tunnels



Thursday, March 4, 2021
1200 hrs PST (Vancouver)
1500 hrs EST (Toronto)



Webinar Invitation



Graham Swarbrick (Hatch Ltd.)

Tunnelling and TBM Launch Progress at
the Annacis Island Wastewater
Treatment Plant Outfall Project in Delta,
BC



Tunnelling Association of Canada
Association Canadienne des tunnels



Thursday, March 4, 2021
1200 hrs PST (Vancouver)
1500 hrs EST (Toronto)



Due to the COVID-19 pandemic, January 2020 was the last time TACym in-person events were held.

Outreach

No outreach events in 2021 to date – plan to re-engage as we open back up again / university back in session.

Presentations - Webinar Series

Webinar Invitation



RockMass Technologies
The Axis Mapper: An Innovative
Underground Mapping Solution



Tunnelling Association of Canada

Ashbridges Bay Treatment Plant Outfall (ABTPO) Tunnel Construction Update



NAME: Andre Solecki, P.Eng (Hatch)

Young Tunneller of the Year Award Winner

**DATE &
TIME:**

Thursday, April 29
1200 hrs PST (Vancouver)
1500 hrs EST (Toronto)





Young Members

Scholarships

Reinstated Undergrad Scholarship

YM's to push the scholarships to receive more applications



@TACyoungmembers



@TAC_young_members



Tunnelling Association of Canada

E: TAC-YM@tunnelcanada.ca

W: tunnelcanada.ca/young_members.php

Award Details

Undergraduate Scholarship - \$2 000 (CAD)

Intended for undergraduate engineers in the fields of Geological or Civil Engineering

Dan Eisenstein Scholarship - \$6 000 (CAD)

Intended for post graduate students planning to undertake or currently undertaking post-graduate studies in the field of tunnelling at a recognized Canadian University

Application Deadline May 15th, 2021



Tunnelling Association of Canada
Association canadienne des tunnels

2021 ANNUAL GENERAL MEETING

Tuesday, October 19, 2021



Tunnelling Association of Canada
Association canadienne des tunnels

2022 TAC ANNUAL GENERAL MEETING

**Stay tuned for details of the 2022 TAC
Conference/Workshop/AGM**



Tunnelling Association of Canada
Association canadienne des tunnels

2021 ANNUAL GENERAL MEETING

Tuesday, October 19, 2021