

Canadian Transportation Research Forum
56th Annual Conference, May 17-18, 2021
*****Virtual Conference, Fredericton, New Brunswick*****

"Ensuring Resilience in Transportation Systems: Anticipating and Responding to Pandemic, Climate, Demographic and Economic Changes"

The Program for CTRF's 56th Annual "Virtual" Conference is coming to fruition in what promises to an engaging event not to be missed. As outlined below, we are planning two plenary sessions, more than 15 paper sessions, a virtual technical tour, virtual trivia event and two luncheon addresses.

Plenary Sessions

Two special plenary sessions are planned, one each for 9 am Eastern (10 am Atlantic) on Monday and Tuesday:

- **Issues and Challenges: A Review of the Impact of the Pandemic.** The past year has seen unprecedented impacts on Canada's transportation industry, with a dramatic decline in domestic and international passenger travel in every mode. The panelists in this session from private sector, public sector and academia will discuss these issues, their implications and more.
- **Moving Forward: How COVID and Technology are Changing Transportation Forever.** A sharp rise in e-commerce, mass uptake in virtual working, change in commuting patterns, and exposure of the vulnerability of our supply chains will have lasting effects that may never return to their pre-pandemic state. This panel of transportation technology and planning experts will explore this and how we can plan for the new normal.



Paper Sessions

Based on abstracts received, we are anticipating the submission of more than 50 research papers. The papers, to be published as usual in the Conference Proceedings, are currently organized over the two days under the following headings:

- Pandemic Modelling
- Pandemic Impacts on Air
- Pandemic Impacts on Trade
- Pandemic Resilience Planning
- Climate and Sustainable Transport
- Transportation History
- Regulation and Policy
- Shared Mobility
- Technology and New Mobility
- Transport Economics
- Policy and Planning
- Transportation Modelling
- Hydrogen and EV Shift
- E-Commerce and Last Mile Delivery
- Supply Chain Visibility
- Pricing and Congestion

Program Schedule

The high level structure of the program is shown below.

CONFERENCE PROGRAM OVERVIEW	
Monday May 17	Tuesday May 18
	AGM
Plenary Session: "Issues and Challenges: A Review of the Impact of the Pandemic"	Plenary Session: "Moving Forward: How COVID and Technology are Changing Transportation Forever"
Break	Break
Paper Sessions	Paper Sessions
Virtual Luncheon	Virtual Luncheon
Paper Sessions	Paper Sessions
Break	Break
Virtual Technical Tour: Port Saint John & Fireside Chat with Jim Quinn, President & CEO Port Saint John	Virtual Trivia

Luncheon Speakers

All "virtual" conference luncheons will feature special keynote speakers. The invited speakers include the New Brunswick Minister of Transportation and Infrastructure, Jill Green.

Other Events

CTRf 2021 will be a virtual conference, and while circumstances will keep us from bringing the world to New Brunswick, we are working to bring New Brunswick to the world. We are pleased to offer a **Virtual Technical Tour of Port Saint John** on Monday afternoon. Port Saint John, on Canada's east coast, has been undergoing a \$205 Million modernization project for its West Side facilities, and recently secured a major new container line. Join us for the tour and a fireside chat with President & CEO Jim Quinn which will provide excellent insight into the happenings at the Port. Early Tuesday evening (Eastern time), we will be hosting the first ever **CTRf Virtual Trivia** event, sure to be a lively event. Be sure to read up on your transportation policy!

The ever popular and amusing Bison Transport Debate will return when the conference is held again in person next year. **CTRf remains committed to the in-person dialogue around transportation. We look forward to returning to the traditional in-person format as soon as possible.**

Inquiries

Information regarding conference registration and fees may be found in this newsletter and on the CTRf website. Register now at <http://www.ctrf.ca/>.

Inquiries regarding submission of abstracts and papers may be directed to:

Adrian Lightstone

VP Program, Canadian Transportation Research Forum

National Manager, WSP

T: 416.277.7683 | adrian.lightstone@wsp.com

Conference registration and other inquiries may be directed to:

Trevor Hanson

VP Meeting, Canadian Transportation Research Forum

Associate Professor, University of New Brunswick

T: 506.453.4521 | thanson@unb.ca



Groupe de recherche sur les transports au Canada

56e Conférence annuelle, 17 et 18 mai 2021

*****Conférence virtuelle, Fredericton, Nouveau-Brunswick*****

“Assurer la résilience des systèmes de transport: anticiper et réagir aux changements dus à la pandémie, climatiques, démographiques et économiques”

Le programme de la 56e conférence annuelle “virtuelle” du GRTC se concrétise dans ce qui promet d'être un évènement à ne pas manquer. Comme indiqué ci-dessous, nous prévoyons deux séances plénières, plus de 15 sessions en parallèle, une visite technique virtuelle, un quizz virtuel et deux luchs avec un conférencier.

Séances plénières

Deux séances plénières spéciales sont prévues. Elles auront lieu à 9h00, heure de l'Est (10h00, heure de l'Atlantique), lundi et mardi matin:

- **Enjeux et défis: Examen des répercussions de la pandémie.** L'industrie des transports au Canada a subi un choc sans précédent dans la dernière année, avec une baisse spectaculaire des déplacements intérieurs et internationaux de voyageurs, pour tous les modes de transport. Les panélistes de cette séance, du secteur privé, du secteur public et du milieu universitaire, discuteront de ces questions , de leurs conséquences, et plus encore.
- **Prochaines étapes: Quels seront les impacts permanents de la COVID-19 et de la technologie sur les transports.** Une augmentation marquée du commerce électronique, une conversion massive au télétravail, des changements d'habitude des usagers du transport en commun, et l'exposition à la vulnérabilité de nos chaînes d'approvisionnement auront des effets à long terme, et qui pourraient ne jamais revenir à leur état d'avant la pandémie. Le panel d'experts en technologie et en planification des transports se penchera sur cette question et sur la façon de planifier dans cette nouvelle normalité.



Sessions en parallèles

À partir des projets d'articles déjà soumis, nous prévoyons recevoir plus de 50 articles complets. Ces articles, qui seront publiés comme d'habitude dans les Actes de la conférence, seront présentés durant les deux jours et sont actuellement organisés sous les rubriques suivantes:

- Modélisation de la pandémie
- Répercussions de la pandémie sur l'industrie aérienne
- Répercussions de la pandémie sur le commerce
- Planification de la résilience en temps de pandémie
- Climat et transport durable
- Histoire des transports
- Règlementation et politique
- Service de mobilité partagée
- Technologie et nouvelle mobilité
- Économie des transports
- Politique et planification
- Modélisation des transports
- Transition vers des véhicules à hydrogène et véhicules électriques
- Commerce électronique et livraison au dernier kilomètre
- Visibilité de la chaîne d'approvisionnement
- Tarification et congestion

Horaire de la conférence

Le programme est prévu comme suit :

APERÇU DU PROGRAMME DE LA CONFÉRENCE	
Lundi 17 mai	Mardi 18 mai
	AGA
Séance plénière: "Enjeux et défis : Examen des répercussions de la pandémie"	Séance plénière: "Prochaines étapes : Quels seront les impacts permanents de la COVID-19 et de la technologie sur les transports "
Pause	Pause
Sessions en parallèle	Sessions en parallèle
Lunch virtuel	Lunch virtuel
Sessions en parallèle	Sessions en parallèle
Pause	Pause
Visite technique virtuelle: Port Saint John et discussion informelle avec Jim Quinn, Président-directeur général, Port Saint John	Quizz virtuel

Conférenciers aux repas du midi

Les repas « virtuels » du midi nous permettront d'entendre des conférenciers de renom. Entre autres, nous avons invité la ministre des Transports et de l'Infrastructure du Nouveau-Brunswick, madame Jill Green.

Autres évènements

La 56e conférence annuelle du GRTC se tiendra de façon virtuelle. Bien que les circonstances vous empêchent de venir au Nouveau-Brunswick, nous travaillons à amener le Nouveau-Brunswick jusqu'à vous. Nous sommes fiers de vous offrir une **Visite technique virtuelle de Port Saint John**, le lundi après-midi. Le port de Saint John, situé sur la côte est du Canada, a entrepris un projet de modernisation de 205\$ millions de ses installations du côté ouest, et a récemment conclu une entente avec un nouveau transporteur de conteneurs. Joignez-vous à nous pour une visite virtuelle et une discussion informelle avec le président-directeur général Jim Quinn, ce qui vous donnera un très bon aperçu des activités qui se déroulent au Port. En début de soirée mardi (Heure de l'Est), nous aurons le plaisir d'animer le tout premier **Quizz virtuel du GRTC**, un évènement qui sera haut en couleur. N'oubliez surtout pas de réviser vos notes sur les politiques des transports!

Le toujours populaire et amusant débat Bison Transport est reporté à l'année prochaine, alors que la conférence se tiendra « en personne ». **Le GRTC demeure engagé envers des conversations sur le transport « en personne ». Nous espérons revenir à notre format habituel aussitôt que possible.**

Demandes de renseignements

Toutes les informations relatives à l'inscription à la conférence et aux tarifs d'inscription sont disponibles dans ce bulletin ainsi que sur le site internet du GRTC. Inscrivez-vous dès maintenant au www.ctrf.ca.

Les demandes de renseignements concernant la soumission des résumés et d'articles peuvent être adressées à:

Adrian Lightstone

Vice-président au programme, Groupe de recherche sur les transports au Canada
Directeur national, WSP

T: 416.277.7683 | adrian.lightstone@wsp.com

Les demandes de renseignements concernant l'inscription à la conférence ou pour tout autre sujet peuvent être adressées à:

Trevor Hanson

Vice-président conférence, Groupe de recherche sur les transports au Canada
Professeur agrégé, Université du Nouveau-Brunswick
T: 506.453.4521 | thanson@unb.ca

President's Message



As I look back to a year ago and writing the Spring President's message, I am reminded that the word "COVID-19" was not yet a part of the common lexicon. While the pandemic loomed in the background by then, we still looked forward to meeting in Montreal for another great CTRF Annual Conference, and to the end of a cold winter. Little had we known then how disruptive things would become or how long it would impact our lives and all aspects of the country's and the world's economy.

The Canadian transportation system has experienced some of our most extraordinary challenges over the past 12 months and has remained resilient in the face of all that has been put before it. We should all be grateful for those who work on the front lines of the industry, from those who work at the railways and the trucking employees who risk their all in moving the critical supplies we use in our everyday lives. Our compatriots in the airline industry have been hit the hardest as traffic levels have declined to levels not seen in decades, and so many have had their livelihoods put on hold. To all those people we owe a debt of gratitude.

For CTRF, it became apparent by late March of last year that the in-person conference would have to be cancelled, yet we adapted and were able to put on two very well received plenary sessions, which were followed by an excellent series of paper presentations that ran on a regular schedule from May to September.

As we continue to endure the conditions that have been necessary in the fight to control the spread of the virus, we have planned to hold the annual conference virtually again this year, our 56th annual conference. The topic for the conference is relevant to the situation we continue to find ourselves in: Ensuring Resilience in Transportation Systems: Anticipating and Responding to Pandemic, Climate, Demographic and Economic Changes. It will be hosted from Fredericton where the local organizing committee had been planning for an in-person event for the past two years. The conference will look to take on a different approach than we did last year – something closer to what has been the regular structure of plenaries and paper presentations and will be held on May 17-18, 2021. I encourage all to check the conference agenda that has been posted on the CTRF website and to register and participate in this year's virtual conference.

On another note, plans are already underway for our 57th annual conference, to be held in 2022 where we hope to meet once again in person in Montreal.

I also remind you to renew your memberships at this time, which will enable you to take advantage of a discounted registration fee for the online conference and access to the member only sections of the CTRF website. Online registration is available at www.ctrf.ca.

In closing, I wish you all the best and hope that you stay safe and well through these difficult times.

Mark Hemmes
President

Mot du président



Si je me reporte à l'année dernière, alors que j'écrivais le « Mot du président » pour le numéro du printemps, le terme « COVID-19 » ne faisait pas encore partie de notre vocabulaire. Même si la pandémie pointait alors à l'horizon, nous espérions encore se voir à Montréal pour une autre conférence annuelle du GRTC, et nous entrevoyions la fin d'un hiver froid. Nous n'avions aucune idée à quel point les choses seraient perturbées et pour combien de temps nos vies ainsi que l'économie du pays et du monde entier seraient chamboulées.

Le réseau de transport canadien a fait face à des défis sans précédent dans la dernière année et est demeuré résilient face à tous ces évènements. Nous devons tous être reconnaissants à ceux qui étaient dans les emplois de première ligne, autant les employés des chemins de fer que les camionneurs qui se sont mis à risque afin de transporter tout le matériel nécessaire à nos vies de tous les jours. Nos collègues de l'industrie aérienne ont été les plus affectés puisque le trafic aérien a chuté à des niveaux que nous n'avions pas vus depuis des dizaines d'années, et plusieurs d'entre eux ont vu leur vie être mise en suspens. Nous devons notre profonde reconnaissance à tous ces gens.

Pour le GRTC, vers la fin de mars 2020, il est devenu évident que nous ne pourrions tenir la conférence annuelle en personne. Nous nous sommes adaptés et avons présenté deux séances plénières qui ont eu un très bon succès, puis une série de présentations d'articles de recherche qui se sont échelonnées de mai à septembre.

Alors que perdurent les mesures de prévention visant à contrôler la propagation du virus, nous avons décidé de tenir la 56e conférence annuelle de façon virtuelle, encore une fois. Le thème de la conférence est approprié à la situation actuelle : Assurer la résilience des systèmes de transport: anticiper et réagir aux changements dus à la pandémie, climatiques, démographiques et économiques. La conférence sera organisée à partir de Fredericton par une équipe qui planifiait une conférence en personne depuis deux ans. Le format virtuel choisi cette année diffère de celui de l'an dernier – il se rapproche davantage de ce que nous faisions auparavant avec les séances plénières et les sessions en parallèle, le tout se tiendra les 17 et 18 mai 2021. Je vous invite tous à consulter l'horaire de la conférence qui a été affiché sur le site internet du GRTC, de vous y inscrire et d'y participer.

Par ailleurs, la planification de la 57e conférence annuelle a déjà commencé. Elle se tiendra en 2022 à Montréal, où nous espérons se voir en personne, cette fois.

Je vous rappelle aussi de renouveler votre adhésion dès maintenant, ce qui vous permettra de profiter du tarif réservé aux membres lors de l'inscription à la conférence annuelle virtuelle, et d'avoir accès aux sections réservées aux membres sur le site internet. L'inscription en ligne est disponible au www.ctrf.ca.

En terminant, je vous souhaite du succès et j'espère que vous resterez en sécurité et en bonne santé pendant ces moments difficiles.



(Traditionally Annual) Bison Transport Debate

Deferral Announcement

Due to the current conditions of the COVID - 19 Pandemic and consequential Virtual Conferencing, The Board of the Canadian Transportation Research Forum (CTRF) has decided to postpone the performance of the Bison Transport Debate until such time as the event can be conducted in person for the complete enjoyment of all participants,hopefully in conjunction with the 2022 CTRF Conference in Montreal.

Bison Transport's continuing sponsorship of this CTRF conference highlight is acknowledged and appreciated. CTRF is pleased to be affiliated with Bison Transport in this endeavour. Bison Transport has received numerous awards for Fleet Safety, Outstanding Innovation, Environmental Excellence, Energy Efficiency, and Outstanding Achievement in Sustainability, as well as being named Shipper's Choice and one of Canada's 50 Best Managed Companies, more than once. Bison Transport holds the highest safety rating available from the U.S. DOT. Bison has earned the Truckload Carriers Association National Fleet Safety Award and Grand Prize multiple times and more than any other carrier since the awards were established in the mid-1970s. Other awards include the American Trucking Associations National Fleet Safety President's Trophy. Bison holds the absolute distinction of being North America's Safest Fleet.

Suggestions of topics for future debates are welcome. Names of volunteer/nominee Challengers are invited. Please forward any suggestions to the Clerk of the Debate or any member of the CTRF Board.



**CTRF Annual Conference
Early Bird Registration Deadline
March 31, 2021**



**CTRF / GRTC
Student Paper Competition 2021**

**Undergrad, Master's & PhD Levels
Application Deadline: May 31, 2021**

**Visit the website for
more information!**

CTRF Board Nominations

This year, the CTRF annual general meeting will include the election of officers to serve on the board. In developing recommendations for the 2021-2022 board slate, the nominating committee gives attention to regional representation, assuring coverage of locations for upcoming conferences, and a desire to see broad and balanced representation from the private sector, university, government, and various modal constituencies who are involved in Canadian transportation. Another factor that we take into account is candidate interest and capacity to serve.

Should you know of persons who are prepared to serve on the CTRF board, or have a desire to offer your services to the organization, kindly contact one of the members of the nominating committee.

Your nominating committee for this year consists of *Malcolm Cairns* (Immediate Past President & Chair of the Committee), *Mark Hemmes* (President), and *Steve Pratte* (Executive Vice-President). Please contact these people directly by clicking on their names.



CTRF Proceedings an Under-Utilized Teaching Tool

For over 20 years, I have been using the proceedings of the CTRF as an integral part of my transportation course. Covid-19 and the switch to online teaching has eliminated the use of the hard copy books, but opened up new possibilities. While some articles were taken from the current year, the selection of pertinent articles dates decades. The CTRF has a treasure-trove of articles that illustrate the theory and practical applications in my transportation economics and policy course. Enough articles exist in other disciplines to support courses in engineering, geography and city planning, too.

The students like the CTRF articles. First, because they address current topics in Canada, second, the prose is generally accessible, and finally, they are short. Their brevity allows me to assign one article each week in my senior undergraduate syllabus.

Administratively, it is easy to use the resources of the CTRF. Just pick out the articles you wish, and have the students register as Student Members. I put the papers together as a package that the CTRF office sends out electronically when the students register.

My use of the articles is to have the students prepare a short (less than 550 words) critique that may be written, or in point-form. The critique sections are: Abstract, Strengths & Weaknesses, Policy Issue/Economic model, and “What I Learned.”

Taking up the CTRF articles with the students and challenging their analysis is always fun. My students are generally reserved and respectful at the beginning of the term. “If it has been printed in the Proceedings, it must be right” – no? But by the end of the course, they are tigers. Ready to shine the klieg lights on unsupported claims, errors of style or convoluted logic.

They also learn a lot about a diversity of transportation topics and issues in different parts of the country. Here are a few examples of what some students felt they had learned.

- This paper opened my eyes to the complexity and difficulty of developing new transportation infrastructure. There are many different stakeholders to consider and many factors that can slow or stop a project.
- “what’s important is the energy source generator.” This is something that I have not put much thought into. It doesn’t matter if a country is using electric cars, if the energy source for those cars are also destroying the planet i.e. fossil fuel.
- Perhaps the biggest lesson that I learned from the paper is the severity and importance of proper road infrastructure for the socio-economic well-being of communities and towns.
- As a person that doesn’t spend much time downtown, I had never really seen the impact of congestion issues but, this paper opened my eyes.
- I find it surprising that big carriers have not jumped at the opportunity to develop such a fuel-efficient mode of transport as airships.
- The article made me realize that government cannot just impose a policy even though it makes sense environmentally and can yield long term benefits for all. There is a lot more that goes in setting policies than just the benefits the policy may bring.

In my view, the best way to become a better writer is to become a better critic. Knowing what works, and what should be avoided is valuable, and will take you a long way.

The students learn critical thinking in the study of the CTRF papers, and learn on a variety of levels about how the transportation system functions in Canada. I hope that more of our academic colleagues will give the idea of using the CTRF papers in their courses a serious look. Feel free to call me, if I can be of any help.

Barry E. Prentice, PhD
Professor,
Dept. of Supply Chain Management
Asper School of Business
University of Manitoba

CTRF Contact Information
PO Box 23033 Woodstock ON N4T 1R9
519-421-9701
www.ctrf.ca

Secretary: Carole Ann Woudsma - cawoudsma@ctrf.ca

Transportation Events

62nd International Meeting of the Transportation Research Forum

April 6-8, 2021
Virtual Conference
www.trforum.org

56th Annual Conference of the Canadian Transportation Research Forum

May 17-18, 2021
Virtual Conference
Hosted from Fredericton, New Brunswick
https://ctrf.ca/?page_id=7683

TAC Conference and Exhibition

Sep 20 – Oct 1, 2021
Online

<https://www.tac-atc.ca/en/conference>

2021 Conference Supporters

As of March 10th, 2021

Presented by - Une présentation de:



Contributing Sponsor - Commanditaire collaborateur



Office
des transports
du Canada

Canadian
Transportation
Agency



Railway Association
of Canada Association des chemins
de fer du Canada

Other – Autre

