

THE

AQTr

Quebec Transportation
Association

FROM 2016.04.11
TO 2016.04.13

QUEBEC CITY
CONVENTION CENTRE

MAJOR

CHALLENGES

IN TRANSPORTATION

CALL FOR PAPERS AND CONTESTS
DEADLINE TO PROPOSE A SEMINAR
OCTOBER 16, 2015

51st EDITION

TRANSPORTATION CONVENTION AND TRADE SHOW:

PROCHAIN ARRÊT!®

Québec 
AQTr's main partner



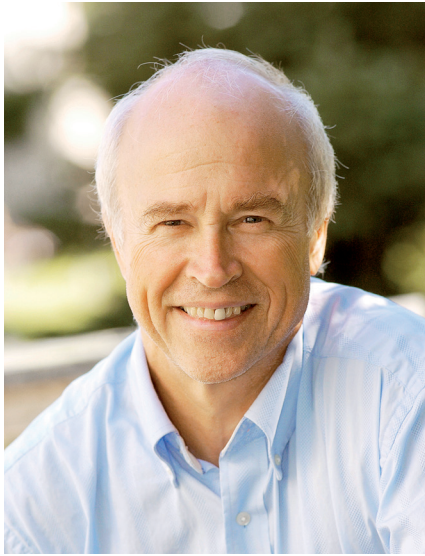
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THE VOICE OF OUR INDUSTRY'S FUTURE

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MESSAGE FROM THE PRESIDENT



JEAN-MARIE DE KONINCK

Tenured Professor

Mathematics and Statistics

Department

Laval University

It is truly a pleasure for me to be presiding over the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®], which will take place in Quebec City from April 11 to 13, 2016. The topic will be: ***The Major Challenges in Transportation***. Year after year, the AQTr holds an event that stands out for the quality of its technical content and variety of proposed activities, as well as its Transportation Trade Show and numerous exhibitors.

In the wake of the roadwork planned over the next few years and already underway in Quebec, it is time to ask ourselves what kinds of challenges await us. Although these challenges may seem specific to large construction sites, they don't stop there. Each and every transportation sector will face its own major challenges: developing and integrating new types of energy and technology, managing traffic congestion, managing assets, financing infrastructures, managing open data, sharing the influence amongst different road users, the concept of intermodality, the aging population and the dire need for replacements in certain sectors are just a few examples.

These major challenges affect all experts from the transportation sector in Quebec and elsewhere. The program for AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®] will have experts presenting their vision, the fruit of their work and research, as well as the latest progress made regarding the challenges that the transportation world is facing. True to form, the AQTr will also be proposing special activities to promote knowledge sharing, develop business relations and encourage discussions with the future generation of workers in the industry.

Therefore, it is with great pleasure that I invite you to join this community of experts by proposing one or several seminars. Your contribution is very important to us and will enrich our program!

PRESENTATIONS REQUESTED

Contribute to the convention's technical portion by proposing a seminar related to the sub-themes listed below.

| SUB-THEMES | EXAMPLES OF TOPICS |
|--|--|
| LARGE-SCALE PROJECTS | Partnerships Alternative financing and delivery modes Risk management Social and environmental impacts Interregional projects Foreign experiences |
| PLANNING | Strategic and political visions Implementing transportation plans Planning tools Developing and redesigning transportation infrastructures Consultative approach |
| ECONOMIC DEVELOPMENT | Economic benefits Assessment measures and tools Financing Pricing |
| MOBILITY | Renewable Energy Active and alternative transport Social, economic and environmental aspects Universal access Multimodality and intermodality Foreign experiences |
| INTELLIGENT TRANSPORTATION SYSTEMS | Smart city Integrated management of operating systems Traveller information broadcasting Technologies, research and development Big Data Foreign experiences |
| ROAD, RAILWAY, MARINE, AND AIRPORT INFRASTRUCTURES | Technical and technological innovations Design, construction, maintenance, repairs, and materials Infrastructure management and policies Road or highway structure Foreign experiences |
| TRANSPORTATION SAFETY | Appeasement measures Physical safety facilities Sharing the road Human factors and commuter behaviour New technologies Plans, policies, and programs Worksite safety |

PRESENTATIONS REQUESTED

| SUB-THEMES | EXAMPLES OF TOPICS |
|------------------------------------|--|
| PUBLIC TRANSIT | New modes of transportation Urban, intercity, and suburban transportation networks Public transit marketing Commuter information broadcasting Technological progresses Exceptional measures Quality of services Foreign experiences |
| TRAFFIC MANAGEMENT | Managing traffic in work zones Managing traffic flow Tools for signage and signals Coordination between roadwork projects Mitigation measures Fluidity of traffic flow |
| TRANSPORTING MERCHANDISE | Commercial corridors Merchandise supply chain Optimization and logistics Tomorrow's industry workers and passing on knowledge Transportation safety Fluidity of traffic flow Multimodality and intermodality |
| CHALLENGES FACED BY MUNICIPALITIES | Sharing the road Municipal infrastructures Strategies and interventions related to the quality of life of residents Transit-oriented development, TOD Social acceptability |



SUBMIT A PAPER

PRESENTATION PROPOSAL

All seminars submitted to the technical session selection committee must be presented in the "Seminar proposal" document, available at www.AQTr.qc.ca. The form must be filled out and submitted **by October 16, 2015**.

The form must be completely filled out for the application to be considered.

SELECTION CRITERIA

The technical session selection committee for the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®] will evaluate seminar proposals according to the following criteria:

- Relevance to the convention's theme and proposed sub-themes
- Topicality of the subject
- Novelty and originality of the presentation
- Content objectivity (avoid sales pitches)

THE SPEAKER'S COMMITMENT

- Be available on Monday, April 11, Tuesday, April 12 and Wednesday, April 13, 2016
- Provide the PowerPoint version of the seminar before the event
- Respect the length of time allotted for the seminar (25 minutes for the presentation, 5 minutes to answer any questions from audience members: 30 minutes in total).

DEADLINE TO SUBMIT AN ABSTRACT: **October 16, 2015**

INFORMATION

Laszlo Dankovics
514 523-6444, ext. 405
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NEW!

PANELS REQUESTED

The AQTr invites you to propose a panel. These 60-minute sessions will give you the opportunity to discuss topics affecting the transportation community by engaging with the audience and other experts in the field.

SUBMITTING A PANEL PROPOSAL

All proposals must be submitted to the selection committee **by October 16, 2015** using the "Themed-Session Proposal" form (Proposition de session thématique) available at www.AQTr.qc.ca.

The online form must be filled out in its entirety for a proposal to be considered.

SELECTION CRITERIA

The panel selection committee for the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®] will be evaluating the proposals based on the following criteria:

- Relevance and connection to the Convention's theme or proposed sub-themes
- Topicality of the subject
- Importance and interest in the issue from professionals in the transportation industry
- Relevance of the presenter and proposed panelists with regards to the session theme

COMMITMENT

The person submitting the proposal must make sure that the presenter and panelists accept to participate in the panel and that they are available on Monday, April 11, Tuesday, April 12 and Wednesday, April 13, 2016 before submitting their proposal.*

DEADLINE FOR SUBMITTING A PROPOSAL: **October 16, 2015**

INFORMATION

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*The person submitting the proposal does not have to be the presenter or one of the panelists.



Dans l'œil de l'AQTr CONTEST

The AQTr wants to promote innovation and visionary ideas!

Have you developed an innovative product or technology? Have you designed a visionary project that showcases future modes of transportation? Then this contest is for you!

APPLICATION GUIDELINES

Fill out the application form available at www.AQTr.qc.ca and send it **by January 29, 2016.***

The outline and presentation of the project must be 500 words.

You may submit a maximum of two appendices with pictures (photos, graphs) with your application form. PowerPoint is not accepted.

Innovation Category

Applications submitted under the "Innovation" category should highlight an innovative product, technique or technology that will promote progress within the transportation industry. Innovations submitted must present a strong potential for commercialization.

Visionary Project Category

Applications submitted under the "Visionary project" category should promote a project that proposes a new vision of transportation or a new concept that will represent an important leap forward for the transportation industry. Visionary projects submitted must be potentially feasible.

ELIGIBILITY CRITERIA

- Visionary projects or innovations must be limited to the transportation industry
- A project can only be submitted to one category

SELECTION CRITERIA

The jury, selected by the AQTr's Board of Directors, will determine the most original visionary project and innovation, those that have the best potential for commercialization and are the most feasible among the proposals received.

** By submitting your application, you authorize the AQTr to use your name, logo and content of your application to promote its contest.*

The winners will be chosen according to a twofold process, totalling 100 points.

Round 1 – Evaluating originality (50%)

The jury will first evaluate applications on the originality of the innovation or visionary project according to the following criteria:

| | |
|--|--|
| <p>Relevance (Is there a need for it? Does it meet the need?)</p> | <p>Creativity (Novelty, technological product or project that stands out)</p> |
| 25 points | 25 points |

The two projects in each category with the highest number of points out of 50 will move on to the second round.

Round 2 –Evaluating the potential for commercialization and feasibility (50%)

If your application has moved on to the second round, the jury believes your innovation or visionary project is among the most original!

You will then be invited to present your project or innovation in front of the jury and attendees during the AQTr's 51st annual convention at the Transportation Trade Show: *PROCHAIN ARRÊT!*[®]. You will be allotted 15 minutes for the presentation, followed by a Q&A session. You may do your presentation in English, if necessary (however, the application form must be filled out in French).

Will you be able to convince the jury of the potential for commercialization of your innovation or the feasibility of your visionary project?

The jury will evaluate the presentations on their commercialization potential (product / technology) or feasibility of the visionary project using the following criteria:

| | | | |
|--|--|---|--|
| <p>Presentation of the file (Rigour, approach and quality of the presentation)</p> | <p>Feasibility (Availability of necessary resources)</p> | <p>Expected benefits (Return on investment, economic and social benefits)</p> | <p>Mobilization (Interest shown by stakeholders)</p> |
| 15 points | 15 points | 15 points | 5 points |

The candidate with the highest number of points out of 100 (total points for both rounds) in its category will be named the winner of the 2016 *Dans l'œil de l'AQTr* contest.

Dans l'œil de l'AQTr CONTEST

ANNOUNCEMENT OF WINNERS

The winners will be announced at the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*® during the awards ceremony, which will take place **on Wednesday, April 13, 2016**.

PRIZE

The AQTr will choose one winner from the "Innovation" category and one winner from the "Visionary project" category.

Winners will receive a plaque with the contest emblem on it, and their innovation or visionary project will be featured on the AQTr's website.

DEADLINE TO SUBMIT A CANDIDACY: **JANUARY 29, 2016**

INFORMATION

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2015 EDITION NOMINEES

Innovation Category

- Nominees:
- ▶ Polytechnique Montréal, Civil Engineering Program, for their project "Transcasapp, a tool for creating and optimizing public transit networks"
 - ▶ Heritage Software for their project "INFO-Neige Montréal mobile application"
 - ▶ The Société de transport de l'Outaouais for their project "Charging your STO Multi chip card online"

Winner: The *Société de transport de l'Outaouais*

Visionary Project Category

- Nominees:
- ▶ The CIRRELT from Laval University for their project "Full charge mobility web: a Quebec-wide investigation"
 - ▶ The Société de transport de Montréal for their project "The STM Stinson Transport Centre: an innovative and sustainable project"
 - ▶ The Ville de Saint-Hyacinthe for their project "Saint-Hyacinthe: pioneer in sustainable transport"

Winner: The *Ville de Saint-Hyacinthe*

A poster session at the Transportation Trade Show: PROCHAIN ARRÊT!® will be available to anyone who wants to present dissertations or other research projects.

PRESENTATION OF THE PROPOSAL

Fill out the application form available at www.AQTr.qc.ca and submit it **by February 19, 2016**, at the latest.

The selection committee will confirm your participation in March 2016.

SELECTION CRITERIA

The selection criteria are the following:

- Relevance to the convention's theme and proposed sub-themes
- Topicality of the subject
- Novelty and originality of the proposal

Priority will be given to applications that are received before the deadline, respect the selection criteria and include a completed "Séance d'affichage" form.

THE STUDENT'S COMMITMENT

Be available Monday, April 11 and Tuesday, April 12, 2016.

DEADLINE TO SUBMIT A PROPOSAL: **FEBRUARY 19, 2016**

INFORMATION

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Les mordus du transport CONTEST

Are you a student and a transport enthusiast? Are you an aspiring visionary? Then this contest is for you! It will allow you to propose innovative solutions to a given problem and show your talent to the industry and potential employers!

As the theme of the 51st Transportation Convention and Trade Show: *PROCHAINE ARRÊT!*® is The Major Challenges in Transportation, the Transport Enthusiasts contest will also be on the same topic!

In the wake of the roadwork planned over the next few years and already underway in Quebec, it is time to ask ourselves what kinds of challenges await us. Although these challenges may seem specific to large construction sites, they don't stop there. Each and every transportation sector will face its own major challenges: developing and integrating new types of energy and technology, managing traffic congestion, managing assets, financing infrastructures, managing open data, sharing the influence amongst different road users, the concept of intermodality, the aging population and the dire need for replacements in certain sectors are just a few examples. These major challenges affect all experts from the transportation sector in Quebec and elsewhere.

How will transport experts be able to address these challenges?

HOW TO PARTICIPATE IN THE CONTEST:

1. FORM A TEAM

Your team must be composed of 2-5 people from the same educational institution.

2. SIGN UP FOR THE CONTEST

There's a limit of 5 teams allowed to participate, so sign up fast!

3. CHOOSE A SUBJECT

You must choose a subject that, in your opinion, constitutes a challenge for the transportation industry and propose a solution to address the issue.

4. PRESENT YOUR WORK

You must do an oral presentation of your project at the 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*®

APPLICATION GUIDELINES

Fill out the application form available at www.AQTr.qc.ca and submit it by March 11, 2016, at the latest.

Les mordus du transport CONTEST

ELIGIBILITY CRITERIA

Each candidate must be a full-time student in a field related to transportation.

SELECTION CRITERIA

Each team must present their project at the 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®] and will have 15 minutes to do their oral presentation (PowerPoint recommended) before a jury of transportation experts.

Projects will be evaluated based on the following criteria:

| Relevance of the challenge chosen | Relevance of the solution proposed to address the issue | Project originality | Quality of work | Clarity and quality of the oral presentation |
|-----------------------------------|---|---------------------|-----------------|--|
| 25 % | 25 % | 20 % | 20 % | 10 % |

ANNOUNCEMENT OF WINNERS

The winning team will be announced at an award ceremony held during AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®]

PRIZE

A \$3000 prize will be awarded to the winning team.

Enter the *Les mordus du transport* contest
for your chance to win a **\$3000** prize

**DEADLINE FOR
APPLICATIONS :
MARCH 11, 2016**

INFORMATION

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PIARC DISSERTATION CONTEST

THE WORLD ROAD ASSOCIATION (PIARC): MEETING NEEDS WITH CREATIVITY

OBJECTIVE

The contest aims to inspire young graduates and students enrolled in a Master's degree program to find solutions that will improve the efficiency and competitiveness of road networks. It also aims to increase their interest in the work carried out by the World Road Association (PIARC).

The dissertation may be completed individually or with a team and should put forward new ideas related to the challenges identified for the 2016-2019 period. The ideas will be analyzed by one or several PIARC technical committees and should encourage those involved in road transportation and related sectors to adopt innovative solutions.

CONTEXT

The transportation industry evolves in relation to the needs of consumers and social concerns, but also in line with the reality of commuters and the economic environment. To meet these perpetual changes, actors within the industry must continuously invest and innovate. The world of transportation is currently undergoing a significant change. Therefore, innovative and mobilizing ideas are strongly encouraged.

APPLICATION GUIDELINES

Fill out the application form available at www.AQTr.qc.ca and submit it **by January 29, 2016**, at the latest.

Dissertations (attached to the online form) must:

- ▶ Be in .pdf format
- ▶ Not exceed 15 pages, including photos, diagrams, charts, etc.
- ▶ Be written in proper French
- ▶ Include the following content in this order: Title page, one-page summary, text, bibliography
- ▶ Be written single-spaced in Arial font 11 with 2.5 cm (1 inch) margins and page numbers on the right-hand side of the footer
- ▶ Show a connection to one or several of the challenges identified by the PIARC technical committees (in the abstract as well as in the introduction to the text).

PIARC DISSERTATION CONTEST

The file should be named in the following format: last name followed by the first name.

Example: Caroline Tremblay = tremblay_caroline

The following documents should also be attached to the online application form:

- ▶ Most recent transcript (students or recent graduates) or diploma obtained (young graduates only)
- ▶ Document showing the candidate's age (e.g. health card or driver's licence)
- ▶ Proof of Quebec residency

ELIGIBILITY CRITERIA

- ▶ Participants (young graduates or Master's Degree students) must be residents of Quebec, as per the *Loi et du Règlement sur l'assurance-maladie du Québec* and the *Loi et du Règlement sur l'impôt du Québec*, and be at most 35 years of age, as of January 1, 2016. They can register as an individual or as part of a team (two or more). They must have a strong interest for the road transportation industry and its connections to various activity sectors.
- ▶ For this 16th edition, participants must focus on one of the 50 or so issues that will be studied by the 17 technical committees of the World Road Association (PIARC) for the 2016 – 2019 period (the new action plan will be available online in November 2015): you can find the committees' reference terms on the Quebec-PIARC homepage at <http://www.aqtr.qc.ca/fr/prix-et-bourses/concours-de-memoire-aipcr-quebec>.
- ▶ Participants will have to identify which issue(s) is the subject of their dissertation and is being studied by PIARC's technical committees by presenting at least one innovative solution to a challenge affecting a sector of the transportation industry: infrastructures, road safety, sustainable development, public transit, intermodality, etc.*
- ▶ "Student" candidates must show proof that they are registered at an academic institution (most recent transcript)
- ▶ "Young graduate" candidates must present their most recent transcript or diploma (not older than two years as of January 29, 2016)

* The topic presented does not have to be related to the student's dissertation that is required by his or her academic institution.

CONCOURS *DE MÉMOIRES DE L'AIPCR*

SELECTION CRITERIA

Dissertations will be evaluated according to following:

The document's overall balance: the document must allow the reader to comprehend the presented challenge, to place it within a larger context and to understand the benefits and disadvantages of each presented solution. This could pertain to elements such as items related to road transportation or how to improve the intervention methods of different key players.

(20 %)

Pragmatism of proposed solutions: planning, managing and operating road transportation systems is a complex procedure and it is essential to search for the best methods to improve and bind solutions to their relative context. Even though the goal of a contest is to put forward innovative ideas, the proposed solutions must take into account the current reality and observable trends, whether anticipated or potential.

(25 %)

How the solution can be applied in Quebec and abroad: dissertation authors must make sure their recommendations can be applied in Quebec. Furthermore, in line with the nature of the Quebec-PIARC Committee, they must make sure their solutions can be applied elsewhere in the world according to issues currently studied by one or more technical committees of the World Road Association (PIARC).

(20 %)

A multidisciplinary approach: candidates will have to take into account several aspects related to road transportation, including the socio-economic environment, environmental stakes and geographic, political and strategic considerations. Dissertations should present the author's point of view regarding the interaction between the road transportation industry and its environment.

(20 %)

The novelty of the proposed solutions: one of this contest's objectives is to encourage the emergence of new ideas. Candidates must make sure that their presentation showcases this aspect.

(15 %)

SELECTION COMMITTEE

A jury formed specifically for the occasion will be in charge of selecting the winning dissertation. The jury will take into account the quality of the analyses presented, the innovation of the proposed solutions and the general quality of the text.

CONCOURS DE MÉMOIRES DE L'AIPCR

The jury is composed of:

- The Quebec-PIARC technical coordinator
- A representative from the AQTr
- A representative from the Quebec-PIARC Committee
- A representative from the ministère des Transports du Québec
- A representative from the private sector
- Two representatives from the academic sector

ANNOUNCEMENT OF WINNERS

The author of the winning dissertation will be notified of the jury's decision in March 2016.

PRIZE

The winner will receive a \$2,000 scholarship at the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®] which will take place at the Quebec City Convention Centre.

The winner will also be granted full free access to the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*[®].

The winner will earn the title of young professional in the PIARC technical committee that is studying the issue presented in his or her dissertation. The winner will also be able to follow the committee's progress throughout the current work cycle.

A summary of the winner's dissertation will also be published on the AQTr's website.

Each participant will be able to take part in a poster session. Contact us for more details.

2015 WINNER

Simon Dumais

Master's student in civil engineering at Laval University

A \$2,000 scholarship was offered by Stantec for the dissertation entitled "Utilisation des revêtements routiers à albédo élevé afin d'atténuer l'effet des changements climatiques".

DEADLINE TO SUBMIT A CANDIDACY: JANUARY 29, 2016

INFORMATION

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AQTr's SCHOLARSHIP PROGRAM

To support our industry's future, reward the efforts of students working towards their PhD, Master's, or Bachelor's Degree or any other college degree pertaining to the transportation industry or related sectors, and to facilitate their integration into the transportation industry.

APPLICATION GUIDELINES

Fill out the application form available at www.AQTr.qc.ca and submit it **by January 29, 2016**, at the latest.

Applications must:

- Be in .pdf format
- Not exceed 10 pages, including photos, diagrams, charts, etc.
- Be written in proper French
- Begin with a title page that includes the following:
 - Candidate's last name, first name, full address, telephone number and email
 - Candidate's professor's last name, first name and telephone number
 - Name of the candidate's academic institution
 - Candidate's complete program name

The file should be named in the following format: last name followed by the first name.

Example: Caroline Tremblay = tremblay_caroline

The following documents must be attached to the online application form:

- The candidate's most recent transcript
- Proof of Canadian citizenship or permanent residency
- Proof of Quebec residency

ELIGIBILITY CRITERIA

The candidate must meet the following four requirements:

- Be registered in a college program for civil engineering, transportation logistics, urban planning and technical development, etc. or be registered in a university program (as an undergraduate or graduate student) related to the transportation industry: civil engineering, urban planning, geography, economy, etc.
- Be a Canadian citizen or permanent resident as per the 1976 Immigration Act
- Be a Quebec resident as per the *Loi et du Règlement sur l'assurance-maladie du Québec* and the *Loi et du Règlement sur l'impôt du Québec*
- Have lived in Quebec for at least 1 year

SELECTION CRITERIA

For a candidacy to be considered, the student must have excelled remarkably during their studies.

The candidate must have successfully completed a term paper / research project / internship / dissertation on a subject related to the AQTr's technical sectors of interest: transport infrastructures, sustainable mobility, transportation safety, road signage, intelligent transportation systems, public transit, freight transport, winter maintenance or alternative modes of financing and delivery.



AQTr's SCHOLARSHIP PROGRAM

The selection criteria are:

ACADEMIC GRADES

The candidate must have obtained the following cumulative average for their current major:

- 80 % or more for college studies
- GPA between 3.3 and 4.3 for university studies

SPECIFIC CRITERIA FOR COLLEGE LEVEL CANDIDATES:

- Project relevance
- Elaboration of the topic
- Author's motives for addressing the topic
- Originality of the project
- Use of visual aids integrated into the text (images, graphs, charts, etc.)
- Remarks on the effects on the transportation industry

SPECIFIC CRITERIA FOR UNDERGRADUATE, GRADUATE AND PHD CANDIDATES:

- Relevance of the project
- Benefits for the transportation industry
- Scale of the project's impact
- Originality of the project
- Feasibility of the project
- Quality of the product and/or results

ANNOUNCEMENT OF WINNERS

Scholarships will be awarded during the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*® which will take place at the Quebec City Convention Centre from April 11 to April 13, 2016.

Scholarship amounts offered are:

| LEVEL | SCHOLARSHIP |
|-----------------|-------------|
| Masters and PhD | \$2,000 |
| Masters and PhD | \$2,000 |
| Undergraduate | \$2,000 |
| Undergraduate | \$2,000 |
| College | \$1,000 |
| College | \$1,000 |

Winners will also receive a free entry to the AQTr's 51st Transportation Convention and Trade Show: *PROCHAIN ARRÊT!*®.

Participants will be also able to participate in a poster session. Contact us for more details.

DEADLINE TO SUBMIT A CANDIDACY: JANUARY 29, 2016

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