



Canadian Technical Asphalt Association

CONFERENCE 2011



Fairmont — Le Château Frontenac site of the 2011 conference.

Special Items of Interest

- Conference Details
- Conference Program
- Tentative Technical Program
- Guest Program
- Abstracts (enclosure)

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- ◆ [Conference Registration Form](#)
- ◆ [2012 Call for Papers](#)
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The 56th Annual Conference and Annual General meeting will be held in Québec at the Fairmont – Le Château Frontenac.

As usual, the CUPGA workshop will take place on Sunday, November 13th, and the conference begins with an Annual General Meeting on the morning of Monday, November 14th.

The AGM will be held in conjunction with the Monday morning breakfast. The turnout last year was certainly better than normal and the Board of Directors

agreed to follow the same format this year.

This year's technical program promises to deliver interesting and varied content. Abstracts of all the papers to be presented are included with the mail out and for those receiving the Newsletter electronically go to the web site, www.ctaa.ca.

Tuesday night is sure to be musical, as the delegates participate in the Annual Gala Banquet.

During the evenings in the hotel, feel free to come to the

hospitality suite and experience the great Québec camaraderie, complete with local entertainment and refreshments to keep you warm.

The Local Arrangements Committee for Québec wish to advise that running and fast walking morning sessions will be available for people who want to get some exercise and at the same time discover the landscapes of the City.

See you in Québec!

Nominations

In accordance with By-Law Article 6 of the Constitution and By-Laws the Nominating Committee, appointed by the Board of Directors following the 2010 Annual General Meeting, has proposed the following list of candidates for election to the Board of Directors for 2011-2012:

2nd Vice-President

Keith MacInnis

British Columbia

Paul Simpson
 Todd Strynadka

Ontario

Michael Esenwa
 Nabil Kamel

Atlantic

Mark Downie

The current Directors for Prairies and Québec are Hugh Donovan and Alan Carter respectively.

The Board of Directors encourages the membership to submit additional nominations for the Officers of the Association. In accordance with By-Law Article 6.3,

(Continued on page 2)

Delinquent Members

Members who have not paid their 2011 annual dues are reminded that all those persons whose dues are in arrears on **July 31, 2011**, will have their names placed on the **delinquent** membership list. They will cease to be eligible for membership privileges such as receiving copies of the 2011 Conference Proceedings and having their names published in the 2011 Conference Proceedings and Conference Program Booklet.

Any member whose dues for **2010 and 2011** remain unpaid on **July 31, 2011**, will be considered **suspended**; they will have their name removed from the membership list and will cease to be a member. Suspended members will also cease to receive CTAA mailings and their names will not be printed in the lists of members in the 2011 Conference Proceedings nor the Program Booklet.

Conference Registration

Registration

Conference and hotel registration forms have been posted on the web site. Please follow the links on the email advising members of this Newsletter and process accordingly. These forms are included with the Newsletter for those receiving same by mail. Please note that the conference registration forms and payment are to be directed to the Victoria office of the Canadian Technical Asphalt Association. Once the form has been received and documented the pertinent information will be forwarded to the Local Arrangements Committee.

Registration for the conference can be made by mail, fax or on-line as can the registration for the hotel. Please remember that the Fairmont – Le Château Frontenac registration forms should be directed to the **HOTEL** and **NOT** the CTAA office.

The Fairmont – Le Château Frontenac advises us that 60% of the room allotment has been taken up.

Young Members Reception

There will be a reception on Monday evening from 5 p.m. to 6 p.m. for members who are 30 years of age or younger. This is not meant as a discrimination move but the Board of Directors is interested in getting younger people involved in the Association and perhaps eventually taking part in Board Affairs. For those interested in attending there is a check off box on the Conference Registration form.

Students

A number of students have been attending recent conferences and some have stayed on as student members and then have become full members. The Board of Directors would like to continue this program and have agreed to grant student membership to a student who registers for the full 3-day conference. Furthermore a student who registers for the full conference will receive a CD of the Proceedings and a 2011 membership plus Banquet and Welcome Reception admittance.

Nominations

(Continued from page 1 - Nominations)

nominations are made by petition to the Board of Directors (c/o the CTAA Office) endorsed by at least ten Association members in good standing and must be made within thirty days of the mailing / posting of this Newsletter. In accordance with By-Law Article 5.3, Ania Anthony succeeds to the position of President and Bob Forfyflow becomes 1st Vice-President.

Under Article 4.1 Michel Paradis and Kelly Carrick, the most recent past presidents, are to continue as Directors.

To assist the CTAA Nominating Committee we are asking members to provide names of CTAA members who are able and willing to serve on the CTAA Board of Directors from November 2012 to November 2013. You can nominate yourself or any member in good standing who resides in the region open for election. The positions that are eligible for election in 2012 are Directors for the Prairies and Québec and 2nd Vice President. The Nomination form is posted on the web site.

Ballots will be sent out in August, by mail to those receiving the Newsletter electronically and with the Newsletter to those receiving the Newsletter by mail.

Conference Registration (cont'd)

Proceedings

The cost of the Proceedings has been included in non-member's registration fees. Regular membership dues include the Proceedings. **Remember that the registration fee for non-members includes membership in the Association for the year 2011.** Hopefully new members signed up in this fashion will then decide to continue to enjoy the benefits of membership in the CTAA.

Membership Fees

Members, whose 2011 dues of \$165.00 plus applicable provincial/federal taxes are paid up by the 30th of September 2011, will be eligible for the member's discount conference fee rates. If a person's name does not appear on the membership list he/she will only be allowed to register at the member's discount rate until October 21st, 2011 if he/she can produce a current membership card. Sustaining members may appoint only one delegate and he/she must carry the membership card sent to the sustaining member.

Conference Fees

The conference registration form provides an outline of the fees for this year's conference. Please note that registration fees will be increased by **\$50** for those registering on line **after October 21, 2011**. For those registering by post the envelope must be postmarked **October 21, 2011 or earlier**.

PROPOSED 2011 CONFERENCE PROGRAM

Saturday, November 12th, 2011

08:30 – 12:00	Workshop A en Français (see pg 5)
08:30 – 12:00	Workshop B in English (see pg 5)
09:00 – 16:00	CTAA Board Meeting
13:00 – 16:30	Workshop A (in English (see pg 6)
13:00 – 16:30	Workshop B (en Français (see pg 6)
16:00 – 18:00	CUPGA Management Committee Meeting
16:00 – 18:30	CTAA & CUPGA Registration
19:00 – 22:00	CTAA Director's Dinner

Sunday, November 13th, 2011

07:30 – 17:00	CUPGA & CTAA Registration
07:45 – 08:45	Breakfast - CUPGA
08:45 – 16:30	CUPGA Seminar
11:50 – 12:40	Lunch - CUPGA
19:00 – 22:00	CTAA Welcome Reception
22:00 – 01:00	Hospitality Suite

Monday, November 14th, 2011

07:00 – 10:00	Breakfast and Annual General Meeting
07:30 – 17:00	Conference Registration
10:00 – 15:00	CTAA Board Meeting
10:30 – 12:00	Technical Sessions
12:00 – 13:30	Delegate Lunch
13:30 – 16:30	Technical Sessions
14:30 – 15:00	Refreshment Break
17:00 – 18:00	CTAA Young Members (under 30) Reception
21:30 – 01:00	Hospitality Suite

Tuesday, November 15th, 2011

07:00 – 08:30	Breakfast
08:00 – 17:00	Conference Registration
08:30 – 12:00	Technical Sessions
10:00 – 10:30	Refreshment Break
12:00 – 13:30	Delegate Lunch
12:00 – 13:30	Past President's Lunch
13:30 – 16:30	Contractor's Workshop
15:00 – 15:30	Refreshment Break
18:00 – 19:30	Pre-Banquet Reception

19:30 – 23:00	Banquet
23:00 – 01:00	Hospitality Suite

Wednesday, November 16th, 2011

07:00 – 08:30	Breakfast
08:00 – 13:00	Conference Registration
08:30 – 11:30	Technical Sessions
10:00 – 10:30	Refreshment Break
11:30 – 12:00	Awards Reception
12:00 – 13:30	Awards Lunch - Delegates & Accompanying Persons
13:30 – 16:30	Technical Sessions
16:30 – 18:00	Canadian Asphalt and Mix Exchange Program Meeting (immediately after the last paper)

There will be a **“Speaker's Preparation Room”** designated for presenters. Contact the registration desk, or any Local Arrangements Committee member for information and/or access to this room.

Proposed Accompanying Guest Program

Saturday, November 12th 2011

16:00 – 18:30	Accompanying Guest Registration
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Sunday, November 13th 2011

07:30 – 18:00	Accompanying Guest Registration
19:00 – 22:00	CTAA Welcome Reception
22:00 – 01:00	Hospitality Suite

Monday, November 14th 2011

07:00 – 08:30	Welcome Breakfast
Visit Isle d'Orléans (Saveurs de l'Isle) to taste or purchase onsite mouth-watering spreads, flavoured butters, jellies, coulis, syrups, vinegars, vinaigrettes, jams, and mustards. You will also have an opportunity to admire the landscapes of one of the most beautiful island in Quebec.	
21:30 – 01:00	Hospitality Suite

Tuesday, November 30th 2010

07:00 – 08:30	Breakfast
Enjoy the culture of Huron nation, eat traditional meals and visit the Huron museum.	
18:00 – 19:30	Pre-Banquet Reception
19:30 – 23:00	Banquet
23:00 – 01:00	Hospitality Suite

Wednesday, December 1st 2010

07:00 – 08:30	Breakfast
Enjoy a cultural visit in the streets of Old Quebec (on foot with good weather) and a special visit of each part of the Château Frontenac with guides dressed up in historical costumes.	
11:30 – 12:00	CTAA Awards Luncheon Reception
12:00 – 13:30	CTAA Awards Luncheon, Delegates and Accompanying Persons

TENTATIVE 2011 CTA TECHNICAL PROGRAM

(Abstracts included with mailing or can be found on the web site.)

Monday, Nov. 14th, 2011

Morning Session: 10:30 a.m.

1. "Usage of Bio-Solvents in the Asphalt Industry to Reduce Emission of Volatile Organic Compounds"
Jean-Martin Croteau, Bernard Tessier, and François Chagnon
2. "Le Développement Durable des Enrobés au Québec"
Michel Paradis, Louise Boutin, Félix Doucet
3. "Comparison of Reactive Elastomeric Terpolymer, Styrene Butadiene and Polyphosphoric Acid Type Modifiers for Asphalt Cement"
Simon A. Hesp; Neha Kanaabar, Syed D. Rubab, and Xin Zhang

Monday, Nov. 14th, 2011

Afternoon Session: 13:30 p.m.

4. "Behaviour of Asphalt Mixes Modified with Asphalt Shingles Modifier and High Rate of Reclaimed Asphalt Pavement"
Hassan Baaj, Mohsen Ech, Paul Lum and Bob Forfylow
5. "Détermination des Plages de Température Affectant l'Ornié-
rage des Couches d'Enrobés Bitumineux"
Mathieu Meunier and Daniel Perraton
6. "Properties of High RAP Plant Mixtures"
Andreas R. Horton, Jason C. Wielinski, Gerry A. Huber and Herb L. Wissel
7. "Evaluation of the Effect of the Addition of Tear-Off Asphalt Shingles in Asphalt Concrete"
Jean-Michel Malo, Alan Carter and Daniel Perraton
8. "The Evaluation of a Fibre-Reinforced Sandwich Chip Seal in Saskatchewan"
Brent Marjerison, Ania Anthony, Jean-Martin Croteau, Marcel Gareau and Chris Dechkoff

Tuesday, Nov. 15th, 2011

Morning Session: 8:30 a.m.

9. "A One Year Review of the Anthony Henday Drive South-East Ring Road Warm Mix Project in

Edmonton, Alberta"

R.W. Forfylow, Mauricio Reyes, Matt Marano, and Matt Grim

10. "Evaluation of Warm Mix Asphalt Behaviour - Stability and Strength Perspective"
Michael Esenwa, J. Keith Davidson, and Anton S. Kucharek
11. "Mechanistic Evaluation of Warm Mix Asphalt Surfacing for C.S. 35-14"
Roanne Kelln, Rielle Haichert, Ania Anthony and Curtis Berthelot
12. "Mechanistic & Empirical Performance Testing & Emission Evaluation for WMA Field Project on Ontario Prov. Hwy 10"
Selena Lavorato, Steven Manolis, Andrew Pahala and Ryon Reid
13. "10 Year Performance of Expanded Asphalt Mix on the Trans-Canada Highway, Wawa, Ontario"
Becca Lane and Tom Kazmierowski
14. "Cold In-Place Recycled Mix: Field and Laboratory Monitoring"
Abd El Halim Omar Abd El Halim, Adnan Hammoud, Ali Kassim, Yasser Hassan, Steve Goodman and Warren Lee

Tuesday, Nov. 15th, 2011

Afternoon Session: 13:30 p.m.

15. "Expérimentation de la thermographie automatisée au ministère des Transports du Québec"
Martin Lavoie
- Contractor's Workshop**
- Wednesday, Nov. 16th, 2011
Morning Session: 8:30 a.m.
16. "Evaluation of the MSCR Test for Canadian Asphalt Binders"
R. Michael Anderson; John A. D'Angelo and John R. Bukowski
 17. "Effects of Engine Oil Residues

on Asphalt Cement Quality"

Syed Rubab, Kezia Burke, Logan Wright, Simon A.M. Hesp, Pamela Marks and Chris Raymond

18. "Evaluation of the In-Situ Water Content of Recycled Asphalt Pavement Materials Treated with Asphalt Emulsion"
Nabil Bouguettaya, Marion Gaonach, Daniel Perraton and Alan Carter
19. "British Columbia's Success with Hot In Place Recycling - a 25 year History"
Connie Nicoletti, Bernie Teufele, Daryl Finlayson and Ian Pilkington
20. "Case Studies to Determine Relationship Between Hot-mix Asphalt Lift Thickness and Pavement Smoothness"
Salman Bhutta and Ryan Essex

Wednesday, Nov. 16th, 2011

Afternoon Session: 13:30 p.m.

21. "Optimizing the Effectiveness of High Performance Chip Seals in Ontario"
Anton S. Kucharek, Trevor Moore, Peter Linton, J. Keith Davidson and Ted Phillips
22. "Test Method to Quantify the Effect of RAP and RAS on Blended Binder Properties without Binder Extraction"
Daniel Swiertz and Hussain Bahia
23. "Evaluation of the Extent of Asphalt Blending in RAP Mixes"
John D'Angelo, Raj Dongre and Audrey Copeland
24. "Evaluation of Using the MSCR test for Modified Binders' Specification"
Hussain Bahia, Nader Tabatabaee, Cristian Clopotel, and Amir Golalipour
25. "Differential Shrinkage Cracking of HMA Placed over Foamed Asphalt Base—a Case Study"
Ludomir Uzarowski, Vimy Henderson, Susan Tighe, and Mike Halloran
26. "Early Stage Curing Characteristics of Partial Depth Cold Recycling"
Trevor Moore, Keith Davidson, Anton S. Kucharek and Michael Esenwa

Future Meetings

2012 - Vancouver, BC
2013 - St. John's, NF
2014 - Winnipeg, MB
2015 - Ottawa, ON

2011 CTAA WORKSHOPS

Presented in English

Workshop B (Eng)

Pavement Performance in Cold Regions

Presenter

Guy Doré

*Professor of Civil Engineering,
Laval University*

**Saturday, November 12, 2011
8:30 am to 12:00 pm**

The workshop will address the specific impact of cold climates on pavement materials, pavement design and pavement performance. Cold temperatures behaviour of asphalt bound materials and freeze-thaw action in pavement materials and sub-grade soils will be described. Protection methods will also be presented and discussed as part of the workshop.

Workshop A (Eng)

Determination of the Mechanical Behaviour of Flexible Pavements Materials

Presenter

*Felix Doucet, ing. M.Sc.A
Road Laboratory Directorate
Transports Québec*

**Saturday, November 12, 2011
13:00 to 16:00**

The workshop will allow participants to introduce themselves to the field of pavement materials mechanics (stress-strain relationships), by becoming familiar with the test methods to determine the instantaneous behaviour (complex modulus, resilient modulus) and the long term performance (fatigue and permanent deformation resistance) of flexible pavements materials. The participants will also better understand the mechanistic behaviour models usually determined in the laboratory, and learn a bit more about certain advanced analytical approaches.

Workshop Fee of \$60.00 includes coffee break

Présenté en Français

Atelier A (Fr)

Détermination du comportement mécanique des matériaux de chaussées souples

Présentateur

Felix Doucet, Ing. M.Sc.A

*Direction de Laboratoire des Chaussées
Ministère des Transport du Québec*

**Samedi, le 12 novembre 2011
8:30 am to 12:00 pm**

L'atelier permettra aux participants de s'initier au domaine de la mécanique des matériaux de chaussées (relations contrainte-déformation), en se familiarisant avec les méthodes d'essai pour déterminer le comportement instantané (module complexe, module réversible) et la performance à long terme (résistance à la fatigue et à la déformation permanente) des matériaux de chaussées souples. Les participants seront également en mesure de bien comprendre les modèles de comportement mécanique généralement déterminés en laboratoire, et d'en apprendre un peu plus à propos de certaines approches analytiques avancées.

Atelier B (Fr)

Performance des Chaussées en régions froides

Présentateur

*Guy Doré
Professeur de Génie Civil,
Université Laval*

**Samedi, le 12 novembre 2011
13:00 to 16:30**

L'atelier portera sur les impacts des températures froides sur les matériaux de chaussées ainsi que sur la conception et la performance des structures de chaussées. Les effets des températures froides sur les matériaux liés au bitume et les effets des cycles de gel et de dégel sur les matériaux granulaires et sur les sols d'infrastructure seront décrits. Des méthodes de mitigation de ces effets seront également décrites et discutées durant l'atelier.

Des frais de l'atelier de 60,00\$ comprennent la pause café

CTAA Scholarships

The Canadian Technical Asphalt Association is pleased to be able to offer two annual scholarships to support students preparing for careers as scientists, technologists or engineers in the general area of asphalt paving technology.

Applications complete with posters are sent to over 50 universities and colleges in the Spring and this year we had over 24 submissions.

CTAA Open Scholarship – Valued at \$2,000

The CTAA Open Scholarship will be presented to a student who has been admitted into, or is currently enrolled in, a technical college or a university program leading to a diploma, undergraduate degree, or post graduate degree which contributes to advances in any facet of asphalt technology. Eligible fields of study include chemistry, chemical engineering, and construction or

The winner of the 2010 Open Scholarship was Shirley Ddamba of the University of Waterloo Engineering Program.

civil engineering. Other areas of study may be considered provided the applicant clearly notes the relevance of his/her curriculum towards asphalt technology.

CTAA Asphalt Industry Scholarship Valued at \$2,000

The CTAA Asphalt Industry Scholarship will be presented to a student who has been admitted into, or is currently enrolled in, a technical college or a university program leading to a diploma or an undergraduate degree which contributes to advances in any facet of asphalt technology. Eligible fields of study include chemistry, chemical engineering, and construction or civil engineering. Other areas of study may be considered provided the applicant clearly notes the relevance of his/her curriculum towards asphalt technology. Applicants with industrial experience in asphalt technology are encouraged to apply.

The winner of the 2010 Industry Scholarship was Antoine Petit of CEGEP Sherbrooke's Engineering Department

Information regarding our scholarship, eligibility and application process can be viewed on our website. Members are asked to pass this information on to students they know or meet.

BARRY DAWSON



Past President Barry Dawson passed away on July 4, 2011. Barry was a member of the Board of Directors of CTAA from 1995 to 2001 and was President at the last conference in Québec in 1999.

CUPGA

As in previous years, the CUPGA session will be held on Sunday (November 13th) of the CTAA annual conference. An agenda is included with this newsletter. Please note that **CUPGA registration fee** is a **separate item on the CTAA Annual Conference registration form**.

2010 Guest Program



Guest Program attendees enjoying one of their events planned by two very dedicated organizers, **Belinda Hart** and **Cathy MacDonald**, partners of CTAA members.

Volunteering to organize a Guest Program for a conference being held in your city is an excellent way of making and renewing friendships. Each year the program reflects the "flavour" of the region of the conference. And the program is always a success because of the variety from year to year.