



Canadian Technical Asphalt Association

CONFERENCE 2010



The Westin Edmonton – site of the 2010 conference.

Special Items of Interest

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

Inside this issue:

Nominations	1/2
Delinquent Members	2
Conference Registration	2
Proposed Program	3
CUPGA	3
Scholarship	3
Tentative Technical Program	4
Workshops	5/6
Guest Program	6

The 55th Annual Conference and Annual General meeting will be held in Edmonton at the Westin Edmonton Hotel.

As usual, the CUPGA workshop will take place on Sunday, November 28th, and the conference begins with an Annual General Meeting on the morning of Monday, November 29th.

The AGM generally at-

tracts about a quarter of the delegates so this year to increase attendance the Board have decided to hold the meeting in conjunction with the Monday morning breakfast.

This year's technical program promises to deliver interesting content, with presentations discussing such timely topics as moisture susceptibility, warm mix and RAP to name a few.

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

During the evenings in the hotel, feel free to come and experience the great Edmonton hospitality, complete with local entertainment and refreshments to keep you warm.

See you in Edmonton!

Included with the Newsletter

- ◆ Hotel Registration
- ◆ Conference Registration
- ◆ 2011 Call for Papers
- ◆ CUPGA Program
- ◆ Nomination Form
- ◆ Abstracts

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 2009 Annual General Meeting, has proposed the following list of candidates for election to the Board of Directors for 2010-2011.

2nd Vice-President

Robert Forfylow
 Stephen Goodman

Prairies

Hugh Donovan

Québec

Alan Carter

The current Directors for British Columbia, Ontario and the Atlantic Provinces

are Paul Simpson, Keith MacInnis and Stephen Yeo 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, nominations are made

(Continued on page 2)

Delinquent Members

Members who have not paid their **2010** annual dues are reminded that all those persons whose dues are in arrears on **July 31, 2010**, 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 2010 Conference Proceedings and having their names published in the 2010 Conference Proceedings and Conference Program Booklet.

Any member whose dues for **2009 and 2010** remain unpaid on **July 31, 2010**, 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 2010 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 Westin Edmonton Hotel registration forms should be directed to the **HOTEL** and **NOT** the CTAA office.

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 2010.** 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 2010 dues of \$165.00 plus \$8.25 G.S.T. are paid up by the 30th of September 2010, 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 November 15th, 2010 if he/she can produce a current membership card. Sustaining members may appoint

Nominations

(Continued from page 1 - Nominations)

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, Michel Paradis succeeds to the position of President and Ania Anthony becomes 1st Vice-President.

Under Article 4.1 Kelly Carrick and Art Johnston, 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 2011 to November 2012. 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 2011 are: Directors for the British Columbia, Ontario, Atlantic 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)

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 29, 2010**. For those registering by post the mail must be postmarked **October 29, 2010 or earlier**.

Early Bird Prize

The Edmonton Local Arrangements Committee are offering 3 prizes of 2 tickets each to the **Grey Cup** on Sunday, November 28th. The prize will be open to all those who register on-line by October 15, 2010 or if by mail have a post-mark date of that date or earlier. Prize winners will be notified by October 25th.



PROPOSED 2010 CONFERENCE PROGRAM

Saturday, November 27th, 2010

08:30 – 12:00 Workshop A (see pg 5)
 09:00 – 16:00 CTAA Board Meeting
 13:00 – 16:30 Workshop B (see pg 5)
 13:00 – 16:30 Workshop C (see pg 5)
 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 28th, 2010

07:30 – 17:00 CUPGA & CTAA Registration
 07:45 – 08:45 Breakfast - CUPGA
 08:45 – 15:00 CUPGA Seminar
 11:50 – 12:40 Lunch - CUPGA
 19:00 – 22:00 CTAA Wine & Cheese Reception
 22:00 – 01:00 Hospitality Suite

Monday, November 29th, 2010

07:00 – 10:00 Breakfast and Annual General Meeting

Monday, November 29th, 2010

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
 21:30 – 01:00 Hospitality Suite

Tuesday, November 30th, 2010

08:00 – 17:00 Conference Registration
 07:00 – 08:30 Breakfast
 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

Tuesday November 30th, 2010

(cont’d)

23:00 – 01:00 Hospitality Suite

Wednesday, December 1st, 2010

08:00 - 13:00 Conference Registration
 07:00 – 08:30 Breakfast
 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.

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.

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

CTAA Industry Scholarship—Valued at \$1,000

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 de-

CUPGA

As in previous years, the CUPGA session will be held on Sunday (November 28th) 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**.

gree 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

Information regarding our scholarship, eligibility and application process can be viewed on our website.



**2009
 Scholarship
 Winner
 Mohab El-Hakim
 with last year’s
 President,
 Art Johnston**

TENTATIVE 2010 CTA TECHNICAL PROGRAM

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

Monday, Nov. 29th, 2010

Morning Session: 10:30 a.m.

1. "Performance Review of Micro Surfacing and Slurry Seal Applications in Canada"

Anton S. Kucharek, J. Keith Davidson, Trevor Moore and Peter Linton

2. "Comparison of Laboratory & Field Compacted Hot Mix Asphalt"

Jason C. Wielinski, Gerald A. Huber, William J. Pine

3. "The Legacy of Four Decades of Asphalt Research at Canadian Universities"

Ralph Haas

Monday, Nov. 29th, 2010

Afternoon Session: 13:30 p.m.

4. "A Comparative Study of Three WMA Technologies in the City of Calgary"

R.W. Forfylow, Mauricio Reyes

5. "Rubber Asphalt Mixes Using Warm Mix Technology"

Michael Esenwa, J. Keith Davidson, Anton S. Kucharek, Gary Shaw

6. "Variation in Pavement Strength Due to Time of Testing and Other Factors"

Chuck McMillan, Venkat Lakavalli, Marta Juhasz

7. "Understanding the Cause of Low Temperature Physical Hardening of Asphalt Binders"

H. Bahia and R. Velasquez

8. "A New Nanotechnology that Easily and Effectively Reduces Moisture Damage in Asphalt Mixes"

John A. D'Angelo, Raj Dongre, Ajay Ranka

Tuesday, Nov. 30th, 2010

Morning Session: 8:30 a.m.

9. "Mix Design and Characterization of Low Energy Asphalt (LEA) Mixes Containing RAP"

Alan Carter, Alice Duveau, Daniel Perraton

10. "Engineering Recycled Asphalt Shingles into Superpave Mixes: An Ontario Case Study"

Riyad Ul-Islam, Susan L. Tighe and Ryan Essex

11. "Dynamic Modulus of Asphalt Mixes in Québec"

Félix Doucet

12. "The Evaluation of a Chemical Additive System to Produce Warm Mix Asphalt in Northern Alberta"

Jean-Martin Croteau, Kevin Oltmanns, Dave Kohut, Jim Gavin

13. "2009 City of Calgary Warm Mix Asphalt Trials - The Experience, The Questions, The Need for Answers"

Art Johnston, Nader Nabhani and Joe Chyc-Cies

14. "Evaluation of Asphalt Binder Characteristics & Field & Lab Performance of High RAP with Warm Mix Asphalt using Hypertherm WMA"

Ryan Clark, Terry Hughes, Jamie Weatherbee

Tuesday, Nov. 30th, 2010

Afternoon Session: 13:30 p.m.

15. "Triaxial Frequency Sweep Mechanistic-Climatic Properties of Lime-Treated Asphalt Mixes in Saskatchewan"

Curtis Berthelot, Rielle Haichert, Ania Anthony, Mike Tate

Contractor's Workshop

- "Stripping (Moisture Susceptibility) of Hot Mix Asphalt"

Wednesday, Dec. 1st, 2010

Morning Session: 8:30 a.m.

16. "Experience with Rubber Asphalt Concrete in Southern Saskatchewan"

Manoj Jogi and Dennis Klimochko

17. "The Effects of Pavement Profile and IRI of Low Temperature Transverse Cracking on a Swelling Clay Subgrade in Alberta"

Dave Palsat, Mohammad Karim, Art Johnston, Trent McLaughlin

18. "Evaluation of Mechanistic Properties of Vancouver HMA Mixes Containing Recycled Asphalt Shingles"

Ludomir Uzarowski, Vimy Henderson, Hana Prilesky, Esther Berube

19. "Pavement Rehabilitation Design and Performance Monitoring of a Rut Resistant Asphalt Concrete Mix in an Urban Setting"

Alan Reggin, Bryan Palsat, Christian Babuin, and Ed Clark

20. "Laboratory Analysis of Asphalt Mixes used in HWY-401 Perpetual Pavement Project"

Mohab Y. El-Hakim and Susan L. Tighe

Wednesday, Dec. 1st, 2010

Afternoon Session: 13:30 p.m.

21. "Determination of Factors Affecting Shear Testing Performance of Asphalt Emulsion Tack Coats"

Anton S. Kucharek, Michael Esenwa and J. Keith Davidson

22. "Ontario's First Superpave Trial: 12 Years of Performance"

Sayed Tabib, Anil Virani, Chris Raymond

23. "Influence of Dynamic Modulus on M-EPDG Outputs"

Marta Juhasz, Chuck McMillan

24. "A Three-Year Experience Review of Geotextile Paving Fabrics in Ontario"

Trevor Moore and Peter Linton

25. "Using High-Speed Ground Penetrating Radar for Evaluation of Asphalt Density Measurements"

Mark Popik, Dr. Ken Maser, Charles Holzschuher

Future Meetings

2011 - Québec City, QC

2012 - Vancouver, BC

2013 - St. John's, NL

2010 CTAA WORKSHOPS

Three Separate half-day workshops are being offered

Workshop A Inspecting Hot Mix Asphalt for Performance (Part 1)

Presenter

Gerry Huber

Heritage Research Group

Saturday, November 27, 2010

8:30 am to 12:00 pm

**Workshop Fee of \$70.00 includes
coffee break before session
starts.**

This is Part 1 of a two part course that can be taken in conjunction with Part 2. The course is designed so that taking Part 2 is not necessary.

This course is focused on the construction and inspection of HMA pavements, with specific focus on the influence of the design and material properties.

Asphalt Binder

- Participants will be provided a general understanding of asphalt binder behaviour with emphasis on the properties affecting hot mix compaction.

Aggregates

- The course will provide an understanding of what the important aggregate properties are and how they influence the properties of the mix.

- Specific emphasis will be on the role of gradation in the packing of aggregate.

- ◇ This is the considered one of the most important pieces of information that inspectors can possess.
- ◇ Knowing how adjustments in gradation will influence mixture properties (air voids and VMA) and compaction in the

field (ability to achieve density) can save frustration and poor quality material being placed.

Mixture Design

- This part of the course will focus the importance of mixture properties on the performance of hot mix on the road.:

- ◇ This allows contractors/inspectors to better understand what mixture properties could cause poor performance in rutting or durability.
- ◇ The discussion will also look at what mixture properties are important and how they can be adjusted.

Asphalt Mixing Plants

- The focus of this part of the course will be to review what properties can be influenced by the plant operation.

- ◇ This will allow contractors/inspectors to recognize plant operations that might cause mixture performance issues in rutting or durability

Workshop B

"An Introduction to Emulsified Asphalts"

Presenters:

**Keith Davidson of McAsphalt
Industries Ltd.**

**Blaine Morien of Pounder Emul-
sions (div. of Husky Oil Ltd.)**

Saturday, November 27, 2010

1:00 p.m. to 4:30 p.m.

Workshop fee is \$60.00

This Workshop was presented at last year's Conference in Moncton and proved so popular that it will be presented again this year.

The Workshop is targeted to indi-

viduals who specify, use or test emulsified asphalts and wish to have a better understanding of these materials. The first part of the workshop will cover basic emulsion theory as well as the terminology, testing, and handling of emulsified asphalts commonly used in the road construction and maintenance industry. An overview of construction and maintenance practices employing emulsified asphalts will also be presented.

Workshop C

Inspecting Hot Mix Asphalt for Performance (Part 2)

Presenter

Gerry Huber

Heritage Research Group

Saturday, November 27, 2010

1:00 pm to 4:30 pm

Workshop Fee of \$60.00.

This is Part 2 of a two part course that can be taken after Part 1. It is not necessary to take the first part to benefit from the course.

This course is focused on the construction and inspection of HMA pavements.

Surface Preparation

- Review of important items that will influence constructability or performance.

- ◇ Subgrade or compacted aggregate base
- ◇ Prime coats
- ◇ Tack coats
- ◇ Repairs prior to paving.

Mixture Delivery

- Important properties and practices to ensure uniform delivery of homogenous mix to the paver.

- This includes different types of trucks and loading of the paver.

JOIN US FOR THE 55TH ANNUAL CONFERENCE IN EDMONTON, ALBERTA

2010 CTAA WORKSHOPS (cont'd)

Mixture Placement

- This is a major area that includes
 - ◇ Paver operation
 - ◇ Dumping the hopper wings
 - ◇ Maintaining proper head of material
 - ◇ Balancing the paver
 - ◇ How to stop the paver (waiting for trucks).
 - ◇ Correcting segregation
 - ◇ Correcting smoothness
 - ◇ Constructing joints including
 - Roll down
 - Luting joints

Mixture Compaction

- Types of rollers
 - ◇ What is the best way to operate them.
- Setting rolling patterns
- Environmental variables
 - ◇ Available compaction time estimates
 - ◇ How best to handle cold weather
- Compacting joints
 - ◇ Transverse joints
 - ◇ Unconfined edge of longitudinal joint
 - ◇ Confined edge of longitudinal joint

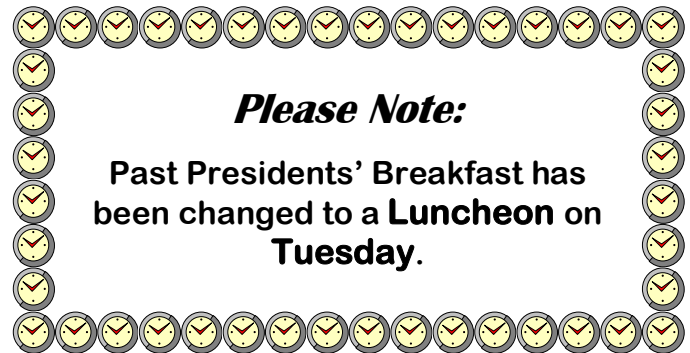
Segregation

- How to identify segregation

- How to determine the source of segregation.
- Techniques for correcting segregation
 - ◇ Temperature segregation.

For those interested in participating in any of the Workshops please note that the Conference Registration form includes a line item for all three. Participants should indicate which workshop they wish and enter the total in the appropriate column.

REGISTRATION IS LIMITED SO PLEASE REGISTER EARLY



Proposed Accompanying Guest Program 2010

Saturday, November 27th 2010

16:00 – 18:00 Accompanying Guest Registration

Sunday, November 28th 2010

07:30 – 18:00 Accompanying Guest Registration

19:00 – 22:00 CTAA Wine and Cheese Reception (Art Gallery of Alberta)

22:00 – 01:00 Hospitality Suite

Monday, November 29th 2010

07:00 – 08:30 Welcome Breakfast

07:30 – 17:00 Accompanying Guest Registration

08:30 – 13:30 Royal Alberta Museum Tour (Catered lunch at the Museum)

13:30 – 17:00 Muttart Conservatory Tour

21:30 – 01:00 Hospitality Suite

Tuesday, November 30th 2010

07:00 – 08:30 Breakfast

09:00 – 15:00 West Edmonton Mall Sightseeing
Lunch catered by the Fantasyland Hotel
West Edmonton Mall Shopping

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

09:00 – 11:00 Christmas card-making workshop at the Westin Hotel

11:30 – 12:00 CTAA Awards Luncheon Reception

12:00 – 13:30 CTAA Awards Luncheon, Delegates and Accompanying Persons

No further activities planned.

11th International Conference

On Asphalt Pavements

ISAP NAGOYA 2010

For Details visit their web site

www.isap-nagoya2010.jp