

**Transportation Association of Canada
Chief Engineers' Council**

Minutes

Dates: September 25 and 26, 2016

Location: Toronto, ON

Part 1: Sunday, September 25, 2016

Chair: Kevin McLeod (Northwest Territories)

Members Present:

Alberta	Tom Loo
British Columbia	Dirk Nyland
Association of Consulting Engineering Companies – Canada	David Kozak
AASHTO	Mark A. Van Port Fleet
Calgary	Troy McLeod
Canadian Construction Association	Ryan Essex
Canadian Institute of Transportation Engineers	John McGill
Edmonton	Allan Bartman (for Barry Belcourt)
Halifax	Bruce Zvaniga
ITS Canada	John Greenough
Manitoba	Ron Weatherburn
Moncton	Jack MacDonald
Montréal	Thameur Souissi
New Brunswick	Serge Gagnon
Newfoundland and Labrador	Joe Dunford
Northwest Territories	Kevin McLeod
Nova Scotia	Bruce Fitzner
Ontario	Dino Bagnariol
Ottawa	Chris Brinkmann
Prince Edward Island	Stephen Yeo
Québec	Guy Tremblay (for Anne-Marie Leclerc)
Saskatchewan	Miranda Carlberg
Saskatoon	Angela Gardiner
Toronto	Ashley Curtis
Transport Canada	Martin McKay
Vancouver	Taryn Scollard
Winnipeg	Brad Neirinck
Yukon	Brian Crist (for Paul Murchison)

Regrets:

Canadian Society for Civil Engineering	Tony Qiu
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Also Present:

Associated Engineering	Martin Rowland
Saskatchewan	David Stearns
TAC Secretariat	Sandra Majkic, Sarah Wells

1. Welcome and Introductions

Mr. McLeod called the meeting to order and welcomed members and guests in attendance. Roundtable introductions followed.

Mr. McLeod noted that an update on the Nipigon River Bridge will be added to the agenda. He invited further additions to the agenda, but none were proposed. The agenda was adopted as amended.

2. Minutes of Previous Meeting

a) April 2016, Ottawa

Mr. McLeod invited comments about, or corrections to, the draft minutes of the April 2016 meeting held in Ottawa, Ontario; none were offered.

It was agreed by motion (Bartman/McGill) that the minutes be approved as circulated and posted on the public portion of the TAC website. **Action: Secretariat**

i. Business arising from the minutes

With respect to business arising from the minutes, Mr. McLeod noted that a report on projects in development and progress as well as reports approved since the last meeting will be provided on Monday. He further noted that an update on the road safety professional designation work by the Road Safety Standing Committee will be provided later on the agenda.

b) Executive Committee Report

Mr. McLeod noted that the Council Executive met by teleconference between meetings to review issues and develop a report to the Board of Directors as well as an agenda for the Council meeting.

He noted that the Council Executive had worked with the Education and Human Resource Development Council to develop criteria for the Young Transportation Professional Award approved by the Board in April 2016. He added that criteria will be discussed later on the agenda before recommendations are presented to the Board.

c) Submission to Board of Directors

Mr. McLeod drew attention to the report to the Board of Directors that had been circulated in advance. He invited comments or questions; none were offered.

d) Vice-Chair Nominations

Mr. MacDonald informed the Council that the Executive is seeking nominations for a Vice-Chair noting that one nomination had already been received. He invited other nominations and indicated that the Council Executive positions will be confirmed at the end of the meeting on Monday.

e) Young Transportation Professional Award

Mr. McLeod drew attention to the Award's description and criteria that had been circulated in advance. He explained that it was agreed that professionals younger than 35 would be eligible for the award. Mr. McLeod further added that criteria include professional accomplishments, industry contribution and advancement of the profession as well as leadership. Mr. Greenough indicated that one of the criteria for the Young ITS Canada Leadership Award is participation in volunteer activities and he enquired whether that had been considered for the TAC Award.

Mr. McLeod explained that it had been discussed and it will be considered under leadership criterion.

It was agreed by motion (Gardiner/Yeo) that the Young Transportation Professional Award criteria be recommended as presented.

f) Executive Director's Report

Dr. Wells drew attention to the Executive Director's report that had been circulated in advance. She noted that the Association is successful in its key areas. The level of commitment by volunteers is high with the large volunteer base of 745 individuals serving on TAC councils, committees and task forces. Over 1,200 participants were expected at the conference, with over 200 papers submitted to the technical program and 60 events featuring 148 speakers, including international speakers.

Dr. Wells noted that the work is in progress to develop a new strategic plan for TAC, to take effect in 2017/18. She invited participants to attend a town hall session that was planned in conjunction with the Annual General Meeting to learn about information resulting from the stakeholder engagement process and to provide additional feedback.

In closing, Dr. Wells recognized the work of the project steering committee, Geometric Design Standing Committee and the Council for completing a new edition of the *Geometric Design Guide for Canadian Roads* (GDG). She indicated that the release of a new edition is an important and exciting milestone for TAC and encouraged members to help spread the word about the upcoming publication.

3. Microsurfacing as Preservation Treatment

Nicole Fleury (Manitoba Infrastructure) joined the meeting to provide a presentation about microsurfacing- pavement preservation treatment. Ms. Fleury provided information about microsurfacing projects in Manitoba, including contract and specification details, treatment cost and benefits. She also provided examples of other applications of microsurfacing in Manitoba.

Attachment #1

Following the presentation, Mr. MacDonald enquired about 10 years treatment life on highway applications. Ms. Fleury confirmed that the treatment was used for sections of TransCanada Highway with volumes of up to 10,000 vehicles per day.

Ms. Carlberg enquired whether microsurfacing had been used on granular pavements. Ms. Fleury explained that it had only been used on bituminous pavements.

Mr. Van Port Fleet enquired whether it would be possible to get more information about project specifications. Ms. Fleury agreed to share more information and specifications used on projects in Manitoba.

4. Highway 407E Project

Gustavo Rojas (Ontario Ministry of Transportation) joined the meeting to provide an overview of the Highway 407E project. Mr. Rojas talked about contract requirements for two phases of the project, construction and environmental challenges, shared key construction facts and figures and described the quality management process.

Attachment #2

Following the presentation, Mr. Van Port Fleet enquired about the project delivery mechanism and payment arrangements. Mr. Rojas explained that the contract was for design, building, financing and maintaining with one payment made upon substantial completion.

Mr. Loo enquired about the maintenance contract terms. Mr. Rojas explained that maintenance for 30 years is part of the contract and payments are made monthly.

Ms. Gardiner asked how time for completion had been determined. Mr. Rojas replied that the completion date had been determined by the Ministry and the contractor developed a schedule to meet the completion date.

Mr. Van Port Fleet enquired whether there had been any fines for non-compliance with environmental laws. Mr. Rojas explained that enforcement officers had been visiting the sites and discussed the issues with the contractor in instances where the processes had not been strictly followed, but no fines had been issued.

5. Nipigon River Bridge

Dino Bagnariol (Ontario Ministry of Transportation) provided a presentation about the Nipigon River Bridge sharing some technical details about the structure's partial failure in January 2016. Mr. Bagnariol indicated that the Ministry provided an update on September 22 and released the technical reports from the investigation. He provided some details from the technical review and analysis findings.

Attachment #3

Following the presentation, there were some questions about liabilities, but Mr. Bagnariol explained that discussions about liabilities as well as the legal process are still underway.

6. State of Flood Preparedness in Canada

Dr. Blair Feltmate (Intact Centre on Climate Adaptation, University of Waterloo) joined the meeting to provide a presentation about the flood preparedness factors with the focus on transportation systems. Dr. Feltmate shared some recommendations to improve flood preparedness in Canada.

Attachment #4

7. Regina Bypass Project

David Stearns (Saskatchewan Ministry of Highways and Infrastructure) and Martin Rowland (Associated Engineering) provided an overview and status of the Regina Bypass project. They focused on project benefits, organization and current activities.

Attachment #5

Following the presentation, Mr. McLeod enquired about the process for environmental approvals. Mr. Stearns explained that it was included in proponent's risk, but no special approvals had been required.

Mr. Yeo enquired whether sound mitigation measures had to be implemented. Mr. Stearns explained that the road is located 300m-500m from the city and the noise level is well below 65dB. He noted that some residents had expressed concerns about the noise pollution, but the City will be working with developers to install the barriers as required. Mr. Stearns added that dust mitigation had to be considered.

8. City of Toronto: Major Projects and Initiatives

Ashley Curtis (City of Toronto) provided an overview of the City's transportation services and major projects and initiatives. Mr. Ashley talked about their focus area and initiatives undertaken or planned in each of the focus areas.

Attachment #6

9. Civil Works Contract-CCDC 18

Walter Strachan (Canadian Construction Documents Committee-CCDC) joined the meeting to provide a presentation about the CCDC 18 document. He talked about principles of contract forms and focused on important clauses in the CCDC 18. Mr. Strachan noted that the work will soon commence to update the CCDC18 and invited members interested in joining the committee responsible for updating the document to contact Mr. Essex, Canadian Construction Association's representative on the Council.

Attachment #7

10. Qualifications-Based Selection for Procurement Services

Mr. Kozak (WSP Canada Inc.) provided an overview of the procurement processes with the focus on qualifications-based practices. He highlighted the benefits of such practices and provided a few case studies. In closing, Mr. Kozak drew attention to the document produced by InfraGuide that can assist clients in decision making and investment planning.

Attachment #8

Following the presentation, participants discussed procurement practices in member jurisdictions.

11. Appointment Members' Reports

a) AASHTO

Mr. Van Port Fleet provided a report on behalf of the American Association of State Highway and Transportation Officials (AASHTO). He highlighted a variety of initiatives, informed the Council about the work in progress to revise existing committee structure and provided an update on innovation initiatives as well as initiatives in developing a practical design approach.

Attachment #9

b) Association of Consulting Engineering Companies – Canada

Mr. Kozak provided a presentation on behalf of the Association of Consulting Engineering Companies – Canada.

Attachment #10

c) Canadian Construction Association

Mr. Essex reported on several issues of interest to the Canadian Construction Association (CCA). He talked about a report on infrastructure prepared by the Canadian Chamber of Commerce and agreed to share the published report for information following the meeting.

Attachment #11

d) ITS Canada

Mr. Greenough reported on current activities and issues of interest to the ITS Canada. Mr. Greenough informed participants that ITS Canada will be hosting a webinar on truck platooning at the end of September.

e) Canadian Society for Civil Engineering (CSCE)

Dr. Susan Tighe (University of Waterloo) joined the meeting to provide a report on behalf of the Canadian Society for Civil Engineering. Dr. Tighe reported on the current activities and issues of interest to the CSCE.

Attachment# 12

f) Canadian Institute of Transportation Engineers (CITE)

Mr. McGill provided a report on behalf of the Canadian Institute of Transportation Engineers and highlighted the technical activities underway through the Institute.

12. Road Safety Professional Designation

Geni Bahar (Navigats Inc.) joined the meeting to provide a presentation about the work of the Road Safety Standing Committee in developing a road safety professional designation. In her presentation, Ms. Bahar provided an overview of the work completed to date as well as the work in progress. She indicated that the [Transportation Professional Certification Board \(TPCB\)](#) is in the process of developing the road safety professional designation and a steering committee is being formed to guide development and implementation of the North American certification for road safety professionals. Ms. Bahar added that the TAC Road Safety Professional Subcommittee is engaged with and will continue collaboration with the TPCB. On behalf of the Road Safety Standing Committee and to continue the work, Ms. Bahar sought Council's endorsement to work with the Education and Human Resources Development Council to assess the current status of road safety education in Canada and she invited Council to consider naming a TAC representative on the TPCB steering committee developing the roads safety professional certification.

Attachment #13

Mr. McLeod suggested the Road Safety Standing Committee's proposal be discussed at the meeting next day.

12. Other Business

There being no other business, the meeting was adjourned until 2:00 PM on Monday, September 26.

Part 2: Monday, September 26, 2016

Chair: Kevin McLeod (Northwest Territories)

Members Present:

Alberta	Tom Loo
Association of Consulting Engineering Companies – Canada	David Kozak
AASHTO	Mark A. Van Port Fleet
British Columbia	Dirk Nyland
Calgary	Troy McLeod
Canadian Construction Association	Ryan Essex
Canadian Institute of Transportation Engineers	John McGill
Edmonton	Allan Bartman (for Barry Belcourt)
ITS Canada	John Greenough
Manitoba	Ron Weatherburn
Moncton	Jack MacDonald
Montréal	Thameur Souissi
New Brunswick	Serge Gagnon
Newfoundland and Labrador	Joe Dunford
Northwest Territories	Kevin McLeod
Nova Scotia	Bruce Fitzner
Ontario	Dino Bagnariol
Ottawa	Chris Brinkmann
Prince Edward Island	Stephen Yeo
Québec	Guy Tremblay (for Anne-Marie Leclerc)
Saskatchewan	Miranda Carlberg
Saskatoon	Angela Gardiner
Toronto	Ashley Curtis
Transport Canada	Martin McKay
Vancouver	Taryn Scollard
Winnipeg	Brad Neirinck
Yukon	Brian Crist (for Paul Murchison)

Regrets:

Canadian Society for Civil Engineering	Tony Qiu
Halifax	Bruce Zvaniga

Also Present:

Golder Associates	Michael Maher
MORR Consultants	Jonathan Regehr, Rob Poapst
Prince Edward Island	Darrel Evans
Saskatchewan	Dave Stearns
TAC Secretariat	Sandra Majkic, Luay Mustafa, Craig Stackpole

Standing Committee Representatives:

Joint Active Transportation Subcommittee	Dean Cooper
Asset Management Task Force	James Smith
Geometric Design	Greg Cooke, Shaun Bidulka
Maintenance and Construction	Phil Hutton, Len Frass
Pavements	Marta Juhasz, Mick Prieur
Road Safety	Ali Hadayaghi
Soils and Materials	Guy Doré
Structures	Dave Besuyen
Traffic Operations and Management	Rob Hird, Alf Guebert

1. Opening Remarks

Mr. McLeod reconvened the meeting and reviewed the items remaining on the agenda. He noted that two items from the Sunday meeting had been added to the agenda for further discussion.

2. TAC Integrated Committee on Climate Change

Mr. McLeod drew attention to the draft terms of reference for the Integrated Committee on Climate Change provided prior to the meetings. Mr. McLeod reminded participants that the Climate Change Task Force transitioned into a new committee and its inaugural meeting was held on September 23. He noted that focus of the meeting was on the committee's mandate and tasks required to complete the mandate and respond to members' needs. Mr. McLeod added that the work is in progress to finalize the terms of reference based on discussion and input received at the meeting and noted that, like other TAC councils, the Chief Engineers' Council will be required to assign a representative on the committee.

Mr. Nyland expressed interest in the topic and work of the committee but noted that due to his responsibilities as the incoming Council Chair he won't be able to commit to that role as required. Mr. MacDonald indicated that depending on the schedule for future committee meetings he may be able to attend on behalf of the Council. Mr. McLeod agreed to continue representing Council on the committee as the Past Chair.

3. Road Safety Professional Designation

Mr. McLeod drew attention to the requests from the Road Safety Standing Committee made during an update provided by Ms. Bahar (see Attachment #12). Participants discussed and acknowledged the benefits of advancing the knowledge in road safety through a certification program but expressed concerns about certification enabling signing authority and that may possibly jeopardize the requirements for projects' approval. After some further discussion, it was agreed not to assign a TAC representative to participate on the project steering committee until more information about the program in development and the intent of certification become available. Furthermore, it was agreed that Road Safety Standing Committee should continue monitoring development of the certification by the TPCB and provide information to the Council as required.

There were no objections to the Road Safety Standing Committee's request to work with the Education and Human Resources Development Council and assess the current status of road safety education in Canada.

4. Project Presentations

a) Overview of Projects in Progress and Development

The Secretary highlighted the reports about projects in progress and in development that had been circulated in advance of the meeting. She noted that slightly over \$1M had been committed for the MUTCDC 6th Edition project and the project had been launched.

b) Design, Construction, Maintenance and Inspection Guide for Mechanically-Stabilized Earth Walls

Michael Maher of Golder Associates provided a presentation about this project conducted under the auspices of the Structures Standing Committee (SSC).

Attachment #14

Following the presentation, it was confirmed that the SSC had recommended the project deliverables be reviewed by letter ballot and **it was agreed by motion (Yeo/Bartman)** to review the report by letter ballot.

Action: Secretariat

c) Traffic Monitoring Practices Guide for Canadian Provinces and Municipalities

Jonathan Regehr of MORR Transportation Consulting Ltd. provided a presentation about this project conducted under the auspices of the Asset Management Task Force (AMTF).

Attachment #15

Following the presentation, Mr. MacDonald observed that fast changing technology may require frequent updates to the document and enquired if there had been discussion about the future updates. Mr. Regehr confirmed that a technology inventory review had been undertaken as part of the project but it had not been determined how document would be updated in the future.

It was confirmed that the AMTF had recommended the project deliverables be reviewed by letter ballot and **it was agreed by motion (Brinkmann/McLeod)** to review the report by letter ballot.

Action: Secretariat

5. Standing Committee Presentations and Project Proposals

a) Geometric Design Standing Committee

Gregg Cooke (Stantec Consulting) provided a presentation on behalf of the Geometric Design Standing Committee (GDSC). He summarized discussions held during the committee's meeting and provided information about priorities and emerging issues identified by the committee.

Attachment #16

b) Maintenance and Construction Standing Committee

Phil Hutton (Ontario Ministry of Transportation) provided a presentation on behalf of the Maintenance and Construction Standing Committee (MCSC). He identified priorities and emerging issues under discussion and provided an update on volunteer projects being conducted under the auspices of the committee.

Attachment#17

c) Pavements Standing Committee

Marta Juhasz (Alberta Transportation) provided a presentation on behalf of the Pavements Standing Committee (PSC). She highlighted the technical discussions that had been held during the committee's meeting and identified priorities and emerging issues.

Attachment #18

d) Road Safety Standing Committee

Alireza Hadayeghi (CIMA Canada) provided a presentation on behalf of the Road Safety Standing Committee (RSSC), highlighting committee discussions and key activities.

Attachment #19

On behalf of the RSSC, Mr. Hadayeghi recommended the work be initiated with the Education and Human Resources Development Council to assess the current status of road safety education in Canada. There were no objections.

Action: Road Safety Standing Committee

Mr. Hadayeghi further recommended that a TAC representative be assigned to participate on the TPCB steering committee developing a road safety professional certification program.

Mr. McLeod explained that the Council had discussed the request made earlier by Ms. Bahar and agreed that more information about the program and its intent is needed before TAC's involvement can be

considered. He suggested that the RSSC continues monitoring development of the program and provides information to the Council as required.

e) Soils and Materials Standing Committee

Guy Doré (University of Laval) provided a presentation on behalf of the Soils and Materials Standing Committee (SMSC). He highlighted the technical discussions that had been held during the committee's meeting and identified priorities and emerging issues.

Attachment#20

f) Structures Standing Committee

Dave Besuyen (Alberta Transportation) provided a presentation on behalf of the Structures Standing Committee (SSC) and highlighted the technical discussions as well as priorities and emerging issues of interest to the committee.

Attachment #21

g) Traffic Operations and Management Standing Committee

Rob Hird (Nova Scotia Transportation and Infrastructure Renewal) provided a presentation on behalf of the Traffic Operations and Management Standing Committee (TOMSC), during which he identified priority and emerging issues of interest to the standing committee.

Attachment #22

Mr. Hird further reported that, as a result of a volunteer project, the TOMSC recommends supplementary tab signs be approved for inclusion in the *Manual of Uniform Traffic Control Devices for Canada* (MUTCDC) with the Electric Vehicle Charging Station Sign (IC-30) to indicate types of available chargers. It was **agreed by motion** (Bartman/McLeod) that the project report and recommendation for the updates to the MUTCDC be reviewed by letter ballot.

Action: Secretariat

h) Joint Active Transportation Subcommittee

Dean Cooper (Watt Consulting Group) provided a presentation on behalf of the Joint Active Transportation Subcommittee (JATSC). He reported that the subcommittee discussed initiatives to raise awareness of active transportation and related issues.

Attachment #23

Following the presentation, Mr. Weatherburn enquired whether committee discussed who should have a leading role in addressing active transportation issues within TAC. Mr. Cooper explained that it is understood that active transportation is part of the mandate of the Urban Transportation Council and its Sustainable Transportation Standing Committee.

i) Asset Management Task Force

James Smith (Ontario Good Roads Association) provided a presentation on behalf of the Asset Management Task Force (AMTF). He summarized discussions held during the committee's meeting and provided an update on projects being conducted under the auspices of the committee.

Attachment #24

On behalf of the AMTF, Mr. Smith recommended a new funded project be undertaken to develop a synthesis of cross asset optimization practices in transportation asset management. He suggested a consultant assignment of \$150,000 would be required for the project. **It was agreed by motion** (Neirinck/Brinkmann) that funding be sought to conduct the project.

Action: Secretariat

Mr. McLeod thanked the Standing Committee Chairs for their time and reports and commended committees for their work and contribution in completing Council's mandate.

6. Council Executive

Mr. MacDonald confirmed that only one nomination for Ms. Gardiner as the Vice-Chair had been submitted and accepted. There were no objections and it was **agreed by motion** (Bartman/Brinkmann) that Ms. Gardiner be selected as the Council's Vice-Chair for a two-year term.

4. Other Business

Mr. McLeod reminded members that the next Council meeting will be convened on April 22 and 23 in Ottawa.

There being no further business, the meeting was adjourned.

Prepared by: Sandra Majkic
Distributed: November 8 2016

List of Attachments

1. Presentation: Microsurfacing Pavement Treatment
2. Presentation: Highway 407E Project
3. Presentation: Nipigon River Bridge Update
4. Presentation: State of Flood Preparedness in Canada
5. Presentation: Regina Bypass Project
6. Presentation: City of Toronto Major Projects and Initiatives
7. Presentation: Civil Work Contract CCDC18
8. Presentation: Qualifications-Based Selection for Procurement Practices
9. AASHTO Update
10. Association of Consulting Engineering Companies – Canada Update
11. Canadian Construction Association Update
12. Canadian Society for Civil Engineering Update
13. Road Safety Professional Designation Update
14. Presentation: Guide for Mechanically Stabilized Earth Walls
15. Presentation: Traffic Monitoring Guide
16. Geometric Design Standing Committee Report
17. Maintenance and Construction Standing Committee Report
18. Pavements Standing Committee Report
19. Road Safety Standing Committee Report
20. Soils and Materials Standing Committee Report
21. Structures Standing Committee Report
22. Traffic Operations and Management Standing Committee Report
23. Joint Active Transportation Subcommittee Report
24. Asset Management Task Force Report