

10:00 A.M. to Noon EST, Thursday, April 11th, 2024
WEBEX

Committee Attendance:

Paul Proctor (Chair)	Atlantic	Mitchell Swisher	Cleveland Cliffs
Terry Dunn	Atlantic	Colin Rojahn	Cleveland Cliffs
Pat Mayne	Atlantic	Jonathon Paton	Warner
Scott MacRae	Armtec	Mike Mounts	Valgroup
Darren Bauman	Armtec	Todd Gray (abs)	ACI
Bruce Matheson	Frontier	Derek Niezen (abs)	Ironside
Jaclyn Pittman	Hubb-Cap	Chuck Skeen	MarMac
Kamran Derayeh	AMD	Richard Northcutt	MarMac
Byron Nelson (abs)	Leland	Mike McGough	NCSPA
Dave Watson	Leland	Ray Wilcock	CSPI
Jim Evans	Cleveland Cliffs		

1. Welcome and Opening Remarks

Paul opened the meeting at 10:06 a.m. EST and welcomed everyone. Attendance was taken and is recorded above.

2. Review Minutes from November 14th, 2023, and Approve

Minutes were reviewed and a motion for approval was made by **Kamran Derayeh**, second by **Scott MacRae** and was carried unanimously.

3. Project List Update

1) CSA G401 – Published on February 28th, 2024

- CSPI Technical Committee met for 2 years reviewing and updating the 2014 document
- CSA Committee – 23 members
 - DOT's 8
 - Cities 1
 - Consultants 3
 - University 1
 - Manuf. & Producers 8
 - CSA 1
 - CSPI 1

- 3 meetings held in 2023.
- Updates:
 - 66 wording revisions
 - 34 table & figure revisions
- 3 main highlights:
 - Change to product lookup versus material / fabrication lookup.
 - New annex on Sustainability.
 - Added Zinc Flake coated bolts & nuts.

Discussion / Issues:

- French translation in progress.
- Complete review of new standard will take place in May.
- Will issue an errata for any changes / editorials by 1st week in June.
- CSA approached CSPI with an offer of free public access of the standard for both English & French at a cost of \$5,000. Given that the overall cost of the standard is less than what was accrued in previous years, all agreed that this would be well received.

A motion was made by [Scott MacRae](#), second by [Terry Dunn](#) to accept this offer from CSA. The motion passed unanimously. Ray will advise CSA and update committee at the June meeting.

2) EPD – discussion following meeting with manufacturers & AMD

Meeting was held on April 4th with to discuss rollout of the two EPD's. Agreement to proceed was as follows:

- Post both EPD's to CSPI website
- AMD's XCarb shows a 45% reduction in carbon footprint
- NA average productions shows similar results as 2018
- Start promoting both to DOT's
- Guage feedback
- Expect transition in the marketplace to take time
- Update carbon calculator to show industry average, XCarb & RCP

Discussion / Issues:

- Jim updated the committee on CC's plan of moving to hydrogen from carbon-based production which will take place in 2026. Documents have been sent to CSPI and will be tabled at the next meeting for discussion.

3) DOT's – CSP & Structural Plate Standards Advancement

Presentation agenda:

- CSA G401 – Published on February 28th
- New material coatings on small diameter CSP & storm sewer spiral rib pipe
- New watertight couplers demonstration
- New Environmental Product Declarations coming
- Coating & Durability – 100 Years?

- Water Testing Demonstration

Nov 23rd	NL	8 DOT & 4 members
Dec 4th	NB	6 DOT & 3 members
Dec 8th	PEI	3 DOT & 2 members
Dec 14th	MTQ	6 DOT & 2 members
Feb 27th	SK	12 DOT & 1 member
Mar 13th	AT	4 DOT & 3 members
Mar 19th	BCMOT	7 DOT & 3 members
Mar 26th	MTO Thunder Bay	6 DOT & 3 members
Apr 10 th	MTO Toronto	14 DOT & 6 members

Meeting with MTO St. Catharines on April 17th and will be discussing the following:

- Development of an OPSS for SPCSPs
- One meeting per month for about 6 months to work through the main sections of the spec.
- The idea is to figure out the initial structure of the specification which will contain material, design, and construction, complete with cookie cutter drawings, etc.

4) Green Handbook

- 2 Year Project
- Member participation
- Chapter by chapter

Discussion:

- Scott will take the lead and put together a plan for the next meeting.
- The subcommittee will consist of Paul, Terry, Pat, Scott, Darren, Bruce, Hubb-Cap, Kamran & Ray. Other members will be asked to participate in those sections requiring their expertise.
- May need a consultant to address hydrology and hydraulic sections
- Scott will send an invitation for the 1st meeting to be held on Wednesday June 5th.
- Ray to investigate and obtain the PW for the word document. Check with TRICO the publisher.
- Scott will give an update at the AGM in June.
- Target date is 1st Q in 2027.
- Mike McGough stated that the NCSPA is starting down a similar road for their design handbook. Areas for sharing will be reviewed.

5) SWM Committee discussion – discuss how to

Members to include Paul, Terry, Scott, Bruce, Kamran, Pat, (Hubb-Cap?) Darren & Doug Leitch (Armtec) & Ray.

Look at mastic being used for watertight joints as per TUBAO.

Discussion:

- The calculator on the NCSPA website is accessible to CSPI.

- Terry was able to download our CD onto the computer.
- Members have been promoting SWM at Lunch & Learns.
- Serviceability of the systems is key and should be emphasized. Ability to clean out.
- Contech did an excellent presentation on SWM – obtain their webinar if possible.
- Start holding webinars in early fall targeting municipalities and consultants.
- Roll SWM into the handbook – possible chapter?
- Same committee as Handbook with addition of Mike Mounts.
- Send committee the webinar CSPI has done by mid-May.
- Ray to set up a meeting on May 30th to give feedback and next steps.

4. Member / Ongoing Items update

a) AMD – (Kamran)

No update.

b) Cleveland Cliffs – (Jim)

- Jim will be retiring on May 31st after a long and storied career.
- He introduced his replacements Mitchell Swisher & Colin Rojahn.
- CSPI members wish Jim all the best and take this opportunity to thank him for the contributions he has made to our industry.
- Welcome to Mitchell & Colin.

c) Valgroup – Lighter polymer laminate & galvanize (Mike)

- Lighter polymer 5 mil, lighter galvanized 90G 100-year coatings to compete with small diameter concrete are now in ASTM A742 & A929.
- Next step is to set up test sites in low abrasion areas.
- NCSIPA is working on a promotional piece of the new coating and the watertight MarMac coupler for non-rerolled ends for the storm sewer market.
- Mike will produce a slide to show at the AGM.

d) Leland - Bolt markings discussion (Byron / Dave)

- Zinc flake bolts are ready to go for all members now that they are in CSA & ASTM.
- Dave to speak to Byron about bolt head markings for silver / grey bolts as they look like HDG for identification. Can NZ be printed, however must be in line with ASTM markings.
- Dave will put together a couple of slides to share at the AGM to educate members on identification of NZF from HDG.

e) Warner – (Ian)

- Jonathon Paton replaced Ian on the committee and was welcomed to the group.

f) Ironside – machinery update (Derek)

- No update.

g) ACI update (Todd)

- No update.

h) MarMac - results from webinar / talks with DOT's (Chuck / Richard)

- Webinar for members only was held on February 22nd.
- Over 50 members attended.
- The webinar was taped and will be posted to YouTube channel in April.
- Dimensions on rerolled ends watertight to a max of 1500mm.
- Dimensions on non-watertight to a max of 3,600mm.
- Chuck will show a few slides at the AGM on non-rerolled ends.

5. Other Associations - Updates

a) NCSPA update

Mike updated the following:

- AGM was held this past weekend in Florida.
- In the process of collecting field data on aluminized and polymer sites for future publication & promotion. Mike will update CSPI at next meeting.
- Creating a similar map to CSPI's "Seeing is Believing" for the website.
- Will be updating design manual to incorporate technical bulletins and notes. This will include seismic, large diameter caissons, sustainability & resiliency.
- Working on a calculator for large tract vehicles.

b) ASTM update

Ballots outstanding:

- Final ballot A761 for zinc flake coated bolts.
- Next meeting is in May in Philadelphia.

c) 2024 TAC Spring Meetings & September Conference

- 2 abstracts submitted / not accepted for September conference in Vancouver.
- Attend as a delegate only.

Spring Meetings (virtual):

- Apr 5th Structures Committee
- Apr 25th Climate Change Integrated Committee
- Apr 26th Environmental Legislation Committee
- May 1st Environmental Issues Committee
- May 2nd Environmental & Climate Change Council

Ideas for abstract 2025 submissions?

- Write in accordance with the theme and pass it by the committee.

d) TRB / AREMA / AISI

TRB	Nil report
AREMA	Nil report
AISI	Short Span Steel Bridge Alliance (SSSBA) conference in 2025.

6. Discussion / Old / New Business

a) Gorilla water tape or Flex Seal tape versus Denso Tape (Mike)

- Mike ran test on all three with comparable results after 1 million cycles.
- The weight loss was in line with polymer laminated.
- Alternatives for PL repair in CSA G401 are allowed.
- Update Polymer Repair Technical Bulletin.
- Mike to send a slide to Ray with test results to include in June meeting.

b) Bolt issue identified in Newfoundland and Labrador with salt seepage. This was visited in November 2023.

- Review photos at the June meeting.

c) Alberta Transportation - Open Bottom Structures. Cookie cutter design, headwalls, cross sectional drawings, standard drawings, this number of boxes, arches, etc. Mimic concrete. Discuss pending meeting with MTO.

- Update at the June meeting.

d) From SWAT Team – produce a Life Cycle Environmental Analysis (Darren to address).

- Possible EPD – Cradle to Grave for structures.
- Mitacs Project – University Student.

- Explore in June.

e) Has any jurisdiction published deformation limits constituting potential failure for rehabilitation? (Asked by Sask DOT).

- Site specific.
- Review AT bulletin and respond to the committee.

f) f) Technical Bulletin #13, Performance Guideline for Buried Steel Structures – reference to AASHTO electrochemical tests to previous version. Requires review, discussion and update if required. (Scott to address).

- To be discussed in June.

New Business

- None

7. Adjourn & next meeting at the AGM in Banff on June 17th, 2024, at the Rimrock Hotel.

The meeting was adjourned at **12:10pm** motioned by **Scott MacRae** and second by **Terry Dunn** and was carried unanimously. Next meeting will be in person on June 17th.



Paul Proctor
Chair



Ray Wilcock
Executive Director