



STRATEGIC PLANNING SESSION Memorandum of Meeting

8:30 A.M. to 10:00 A.M., Thursday November 29th, 2018 – Kitchener, Ontario

Present:

Kevin Williams, Chair	AIL	Marc Warden	Hubbell
Jason Sherwood	AIL	Dave Newbigging	AMD
Riley Wilson	AIL	Kamran Derayeh	AMD
Nick Spence	AIL	Jim Evans	AK Steel
Randy McDonald	AIL	Dave Watson	Leland
Heba Ahmed	Armtec CC	Mike Mounts	Valfilm
Scott MacRae	Armtec CC	Derek Niezen	Ironside
Bruce Matheson	Frontier	Ray Wilcock	CSPI

Absent:

Todd Gray	ACI	Ian Berry	Warner
Byron Nelson	Leland		

1. AISI Antitrust Guidelines

Ray presented the AISI Antitrust Guidelines that are in effect for all CSPI meetings. A copy will be circulated with these minutes.

2. Welcome and Opening Remarks – Kevin

Kevin opened the meeting and welcomed all members. Attendance was taken and is recorded above.

3. Review Minutes from June 11^h, 2018 and Approve

Minutes were reviewed and accepted. A motion for approval was made by **Heba Ahmed**, second by **Bruce Matheson**.

4. Strategic Plan Overview

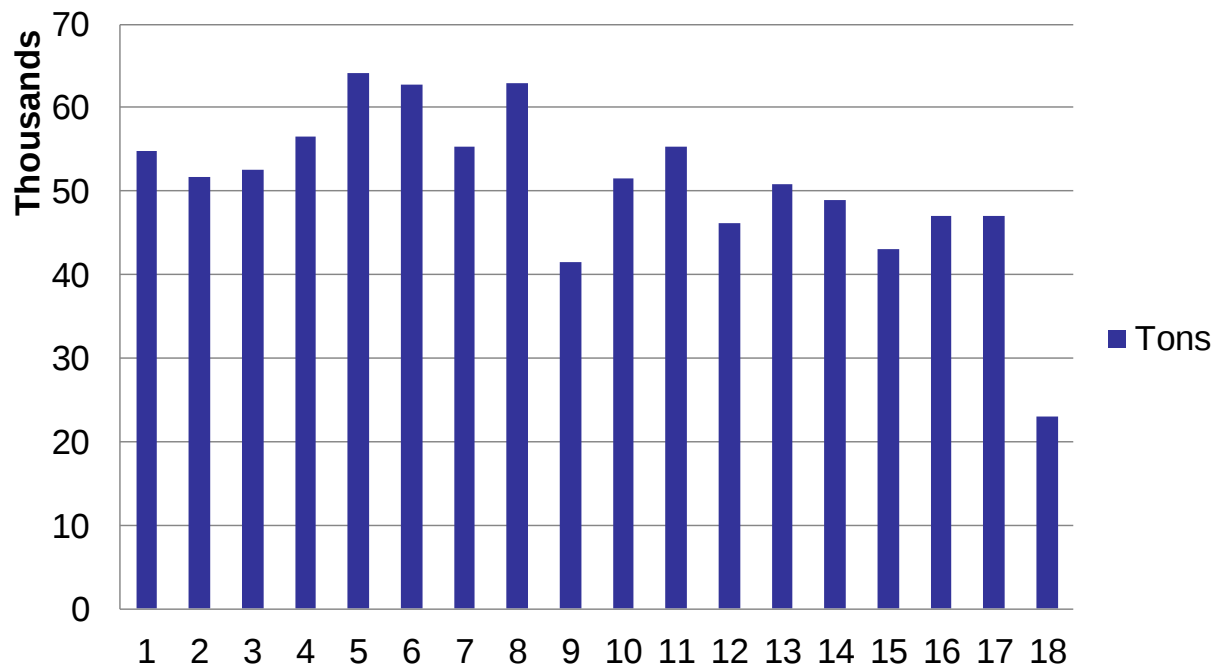
- Penetration into the concrete market (DOT and key municipality focus)
- Educate colleges and university students
- Research initiatives with University Grad Students

5. Key Performance Indicators (KPI)

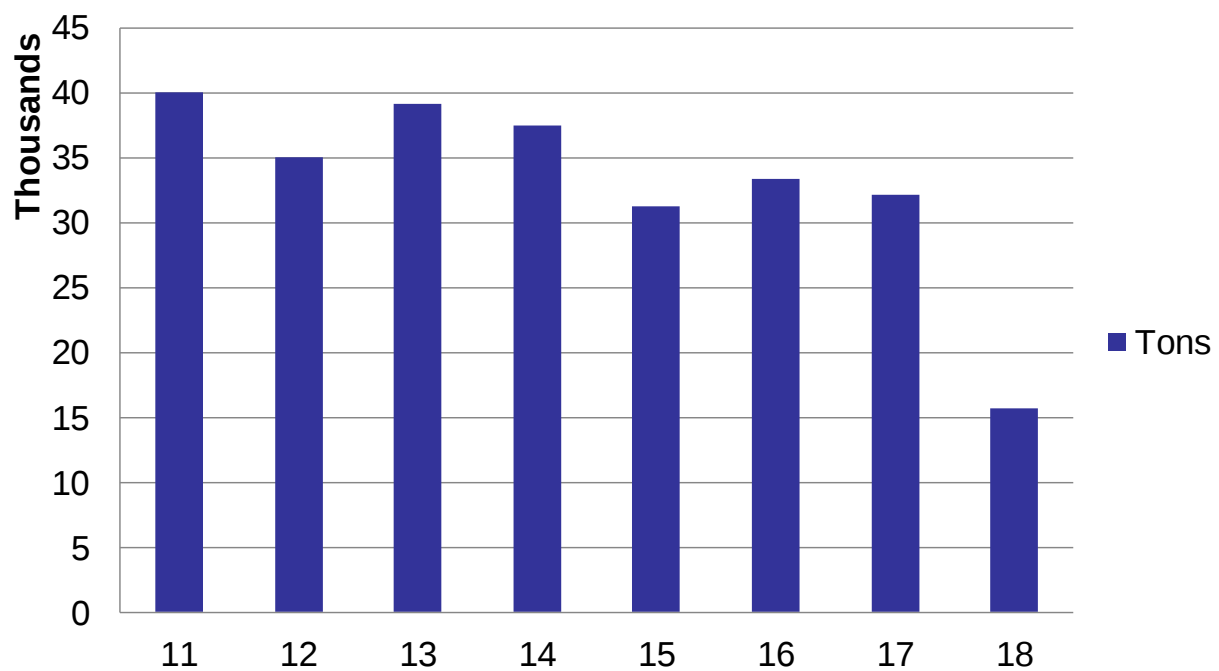
a) CSPI Tons Year over Year

- Ray presented the following graphs showing the levels of CSP tonnage reported from 2011 to the 2nd Q of 2018:

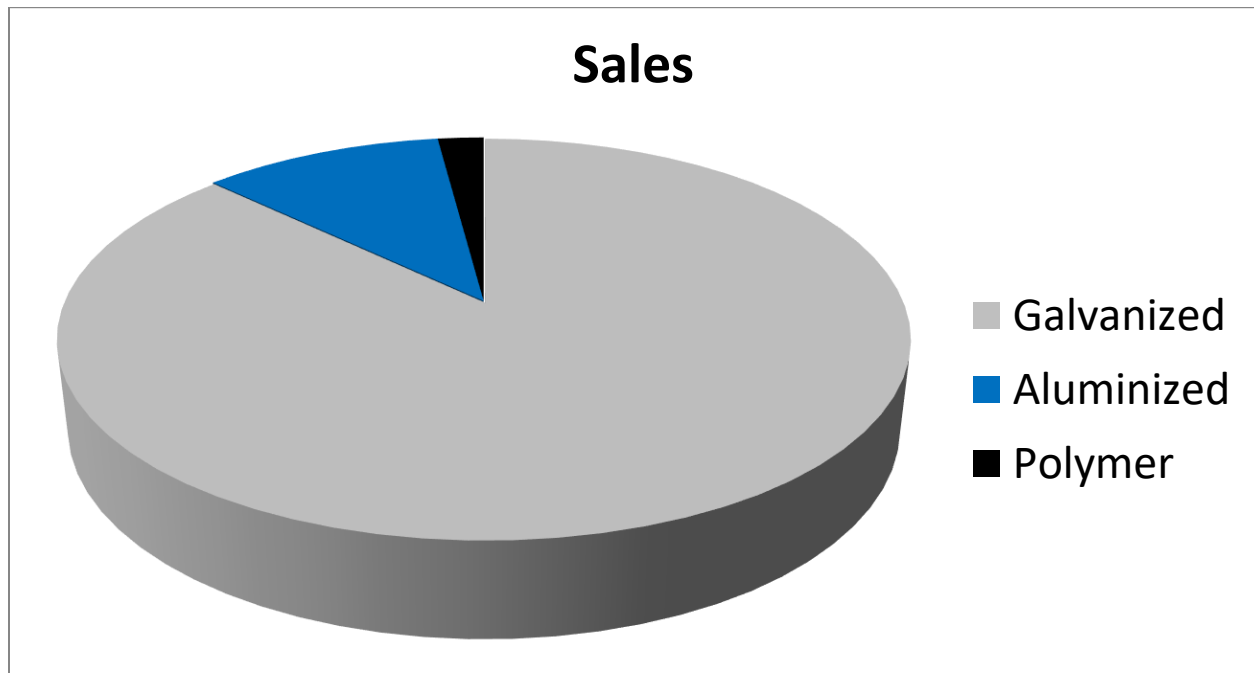
Total Industry CSP Tons Reported 2001 – 2018 2nd Q (includes estimates for non-members)



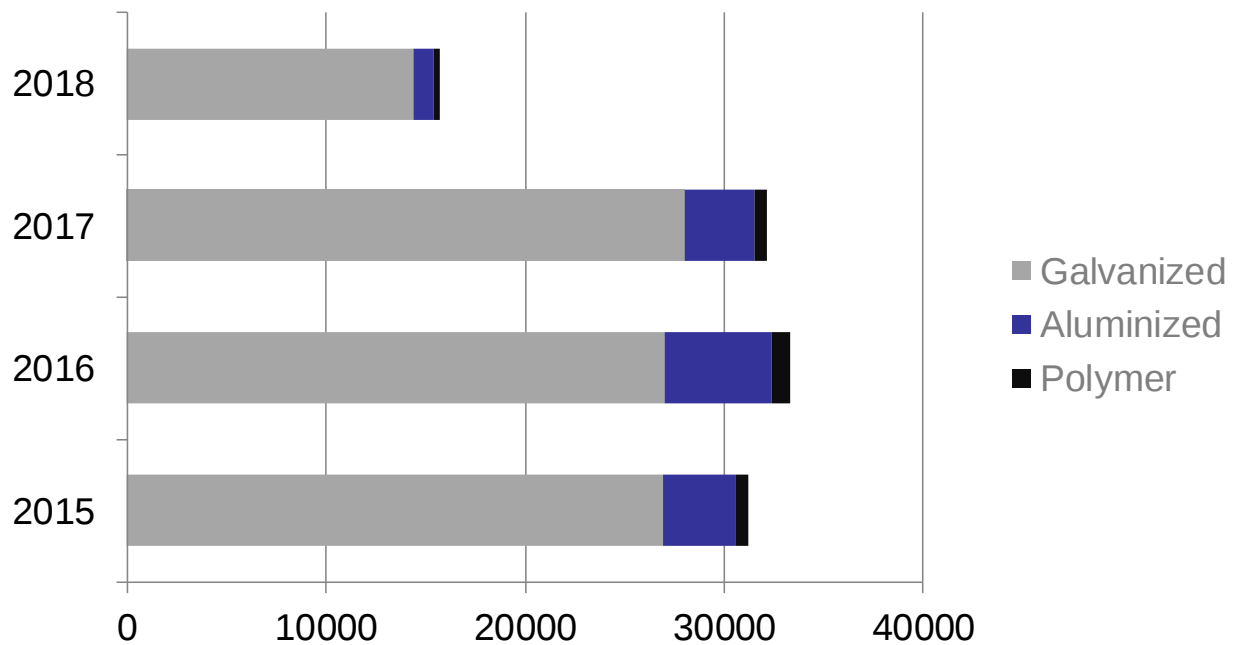
CSPI Tons Reported 2011 – 2018 (2nd Q)



CSPI Tons Reported 2017



CSPI Tons Yearly Comparison



b) Number Key Clients visited in 2018

<u>2018</u>	<u>Client</u>	<u>Staff</u>	<u>Topic</u>
Jan 24th	MTO – Stakeholders Workshop	24	Communication
Feb 16th	MTO Kingston	2	PL CSP
Feb 22 nd	MTO St. Catharines	2	Roads & Bridges
Mar 6th	City of Calgary	4	Roads & Bridges
Mar 14th	Alberta DOT	1	Relationship
Mar 15th	Sask DOT	4	Bridge Standards
Mar 20th	City of St. John's	4	Road standards
Mar 21st	NF DOT	5	Standards
Mar 26th	Sask DOT	2	Road Standards
Mar 27th	BC DOT	1	LCA Study
Mar 29th	City of Vancouver	2	Roads & Bridges
Apr 21st	TAC Structures Ottawa	40	Bridges
Aug 8th	Alberta DOT	1	Roads
Sept 10th	MTQ – Quebec City	1	Bridges
Sept 25th	MTO Kingston	2	P.L. Issue
Sep 26th	Renfrew County	1	Site Visit – Rehab
Sep 30th	TAC Structures Saskatoon	30	Bridges
Oct 16th	MTO St. Catharines	2	Roads & Bridges

Total Visits in 2018 18

c) Key Market Product Standards Submissions

DOT's

Owner	Gal. CSP	AL2 CSP	PL CSP	Gal. SP	TP SP	HDPE	RCP	Certification
NFLD	No	Yes	No	Yes	No	<600mm	Yes	Submitted
PEI	Yes	Yes	No	No	No	Yes	Yes	No
NS	Yes	Yes	No	Yes	No	Yes	Yes	No
NB	No	Yes	No	Yes	No	Yes	Yes	No
PQ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes - CSP
ON	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MB	Yes	No	No	Yes	No	?	Yes	No
SK	Yes	No	No	Yes	No	Yes	Yes	Yes
AT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

- Randy suggested adding steel reinforced plastic pipe
- Add Yukon, NWT and Nunavut.

- Action: Post schedule in member section of the website. Link to DOT standards, highlighting appropriate sections or add standards not on a website.
- Action: Add the value engineering option column and continue to populate the table.

Municipalities

Municipality	Gal. CSP	AL2 CSP	PL CSP	Gal. SP	TP SP	HDPE/ PVC	RCP	Value Eng.
Vancouver Storm Sewer Culverts	No No	No No	No No	No No	No No	? ?	Yes Yes	
Langley	Follow Van							
Victoria								
Edmonton Storm Sewer Culverts	No Yes	No No	No No	No	No	PVC PVC	Yes Yes	
Calgary Storm Sewer* Culverts	Yes Yes	Yes No	Yes No	Yes	No	PVC & PE App. Req.	Yes No	
Saskatoon								
Regina Storm Sewer Culverts	No Yes	No Yes	No Yes	Yes	No	PVC<450mm HDPE	? Yes	
Winnipeg								
Thunder Bay Storm Sewer Culverts	No No	No Yes	No No	OPS	OPS	PVC<375mm HDP<900mm	Yes No	
Sudbury								
Toronto Storm Sewer Culvert	No	No	No			PVC	Yes	
Hamilton Storm Sewer Culvert	No Yes	No Yes	No No	OPS	OPS	PVC HDPE	Yes Yes	
London	No	No	No	OPS	OPS	Yes	Yes	
Windsor Storm Sewer Culverts	Yes No	Yes No	Yes No	OPS	OPS	Yes PVC & PE	Yes Yes	
Region of Waterloo Storm Sewer Culverts	No	No	No			Yes<600mm	Yes	

St. Catharines Storm Sewer Culverts	No Yes	No Yes	No Yes	OPS	OPS	Yes Yes	Yes Yes	
Kingston								
Ottawa								
Oshawa								
Montreal								
Sherbrooke								
Quebec City								
Trois- Rivieres								
Saguenay								
Fredericton Storm Sewer Culverts	No No	No No	No No	No No	No No	Yes No	Yes Yes	
Moncton								
Halifax Storm Sewer Culverts	No No	No No	No No			Yes HDPE/PE	Yes Yes	
St. Johns	No	No	No	NFDOT	NFDOT	Yes	Yes	

* Mains only, requires approval from Water Resources on a case by case basis

There is a distinction between storm sewers (urban) and culverts in the rural areas. CSP is allowed in rural area for culvert crossings, however not in city storm sewers. For storm sewers, spiral rib profiles are required to achieve required “Manning’s” flow. Diameters start at 300mm.

Update:

- MTQ Quebec – 75 year for PCSP and Leland NZF3000 bolts for out of water structures and class 1 Abrasion for structures in the water.
- MTO Ontario – Submitted Polymer Coated bridge package – bridge design
- SASK DOT - submitted comments on pipe stiffeners & certification – approved
- NF DOT – submitted specification wording for PLCSP and PCSP
- City of St. John’s NF – storm sewer application
- City of Halifax NS – storm sewer application
- City of Winnipeg – storm sewer application
- City of Calgary - storm sewer application
- Road Authority in Ontario – joined (6 cities targeted in December)

Discussion:

1. Jim suggested using the Chamber of Commerce to reach the key decision makers as was done by the NCSPA in the state of Georgia
2. Randy – focus should be directed towards the key stakeholders / taxpayers

3. Heba – suggested focusing on the municipal engineer's association of Ontario and look at a cost benefit analysis of alternate pipe materials
4. Jason suggested looking at the public works in BC and focus on one municipality
5. Scott suggested looking at OGRA or ROMA and submit a presentation for their annual meetings
6. [Kevin recommended moving this to the PPC committee for further discussion. All agreed.](#)

d) Number of Students/Institutions Presented during the last 12 months

<u>Date</u>	<u>University / College</u>	<u># of Students</u>
Feb 7th 2018	St. Lawrence College, Kingston	30
Feb 9th	University of Toronto	80
Feb 12th	St. Clair College, Windsor	30
Feb 16th	RMC College, Kingston	25
Feb 27th	McGill University, Montreal	35
Mar 6th	SAIT College, Calgary	50
Mar 7th	OGRA Storm Sewer course	30
Mar 15th	Sask Polytech College, Moose Jaw	60
Mar 19th	Seneca College, Toronto	60
Mar 21st	Memorial University, St. John's	30
Mar 22nd	North Atlantic College, St. John's	30
Mar 26th	University of Saskatchewan	90
Mar 28th	Okanagan College, Kelowna	30
Apr 3rd	University of Guelph	30
Jun 15th	University of Windsor	40
Oct 24th	Loyalist College Belleville	24
Nov 28th	Western University, London	36

17 Guest Lectures 710 Students

Suggestion was made for a focussed group to look at the presentation for update, etc.

[Action: Randy & Heba to review presentation prior to the 2019 season.](#)

6. Assessment

a. Are we answering the question why steel? Do we want to keep a dual focus on DOT's and Municipalities?

Ideas discussed were:

1. Comparison of installed cost of CSP versus concrete
2. Coquihalla study - do we want to move this into economics (LCC)
3. EPD versus concrete – sustainability message
4. Are we targeting the right people? Financial & environmental versus engineering. Start the conversation with other audiences and tailor to the audience.
5. Look at planning departments who look to others to grant construction permits
6. Value engineering case study on alternate materials for capstone classes
7. [Move to PPC for further discussion.](#)

7. Discussion / New Business / Old Business

US tariffs – submission made to the Federal Finance Department. Acknowledgment received only, even after contacting the local MPP of Cambridge several times.

8. Strategic Plan Adjustments

Points discussed for future review:

1. Randy stated that the Canadian Highway Bridge Design Code (CHBDC) covers design code for structures greater than 3 meters. Is there value to include a culvert design code for diameters less than 3 meters?
2. Kevin suggested that Ray contact Art Groenveld of the MTO to determine if there is a plan to include a design code in the Ontario Gravity Pipe Design Guidelines (OGPDG). This would give engineers comfort. This standard is up for renewal in 2020.
3. Should there be a new CSA standard for design of culverts < 3M? A material and design standard. Common design method for all culverts?
4. Heba suggested that a good starting point is to look at a comparison in OPSS 1801, height of cover tables.
5. [Set up a small committee? Future discussion.](#)

9. Adjourned at & Next Meeting

The meeting was adjourned at **10:10 am**. Next meeting will be at the annual meeting in Charlottetown, PEI on June 10th, 2019 at a date to be determined.

Ray Wilcock
Secretary