

8:00 A.M. to 10:00A.M., Monday June 5th, 2017 – Vancouver, B.C.

Present:

Kevin Williams (Chair)	Atlantic	Mike Mounts	Valfilm
Jason Sherwood	Atlantic	Heba Ahmed	Armtec
Byron Nelson	Leland	Kamran Derayah	AMD
Shane Setter	Ironside	John Tran	AMD
Randy McDonald	Armtec	Dave Newbigging	AMD
Dawn Nigro	Armtec	Phil Carroll	Atlantic
Robert Rohr	ACI	David Worsley	Atlantic
Bruce Matheson	Frontier	Ray Wilcock	CSPI

Absent:

Janine Yetke	Armtec	Chris Groot	ES Hubbell
David Watson	Leland	Ian Berry	Warner

1. Welcome and Opening Remarks – Kevin

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

2. Review Minutes from December 8th, 2016 and Approve

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

3. Strategic Plan Overview

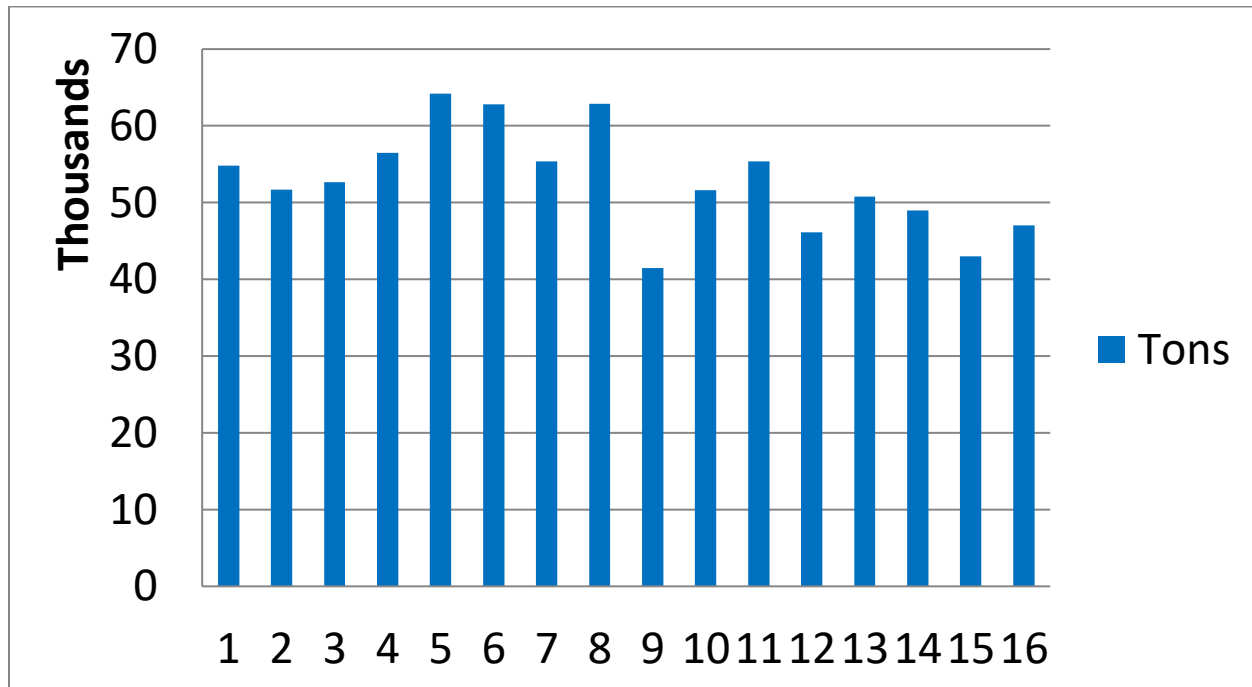
- a) Answer the question 'Why Steel?'
- b) Penetration into the concrete market. (DOT and municipality focus).
- c) Educate colleges & university students

4. Key Performance Indicators (KPI)

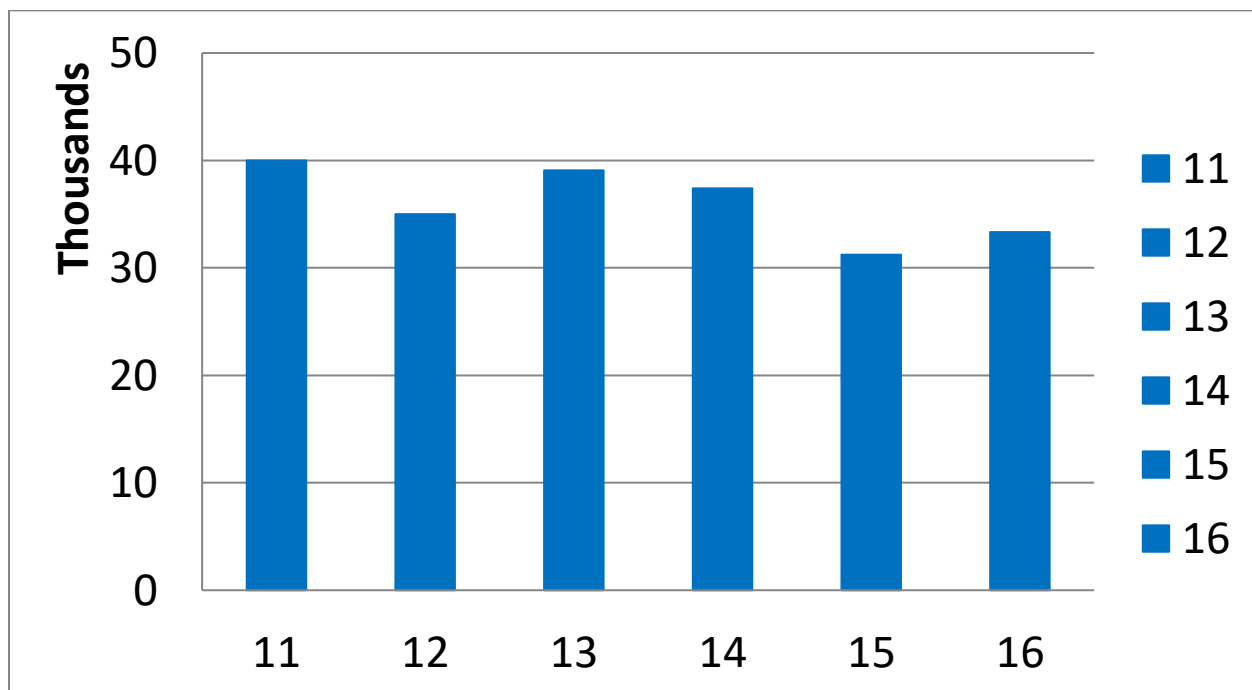
a) CSPI Tons Year over Year

- Ray presented the following graphs showing CSP tonnage up 7% over 2015:

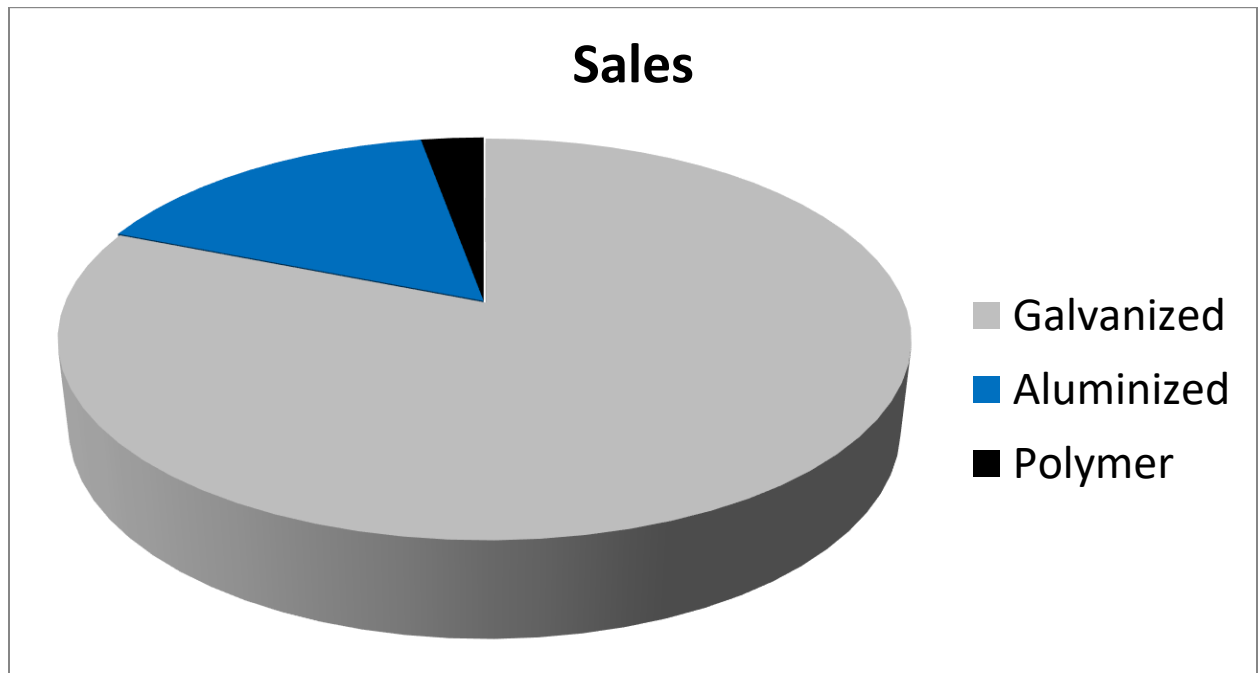
Total Industry CSP Tons Shipped 2001 – 2016 (includes estimates for non-members)



CSPI Tons Shipped 2011 – 2016

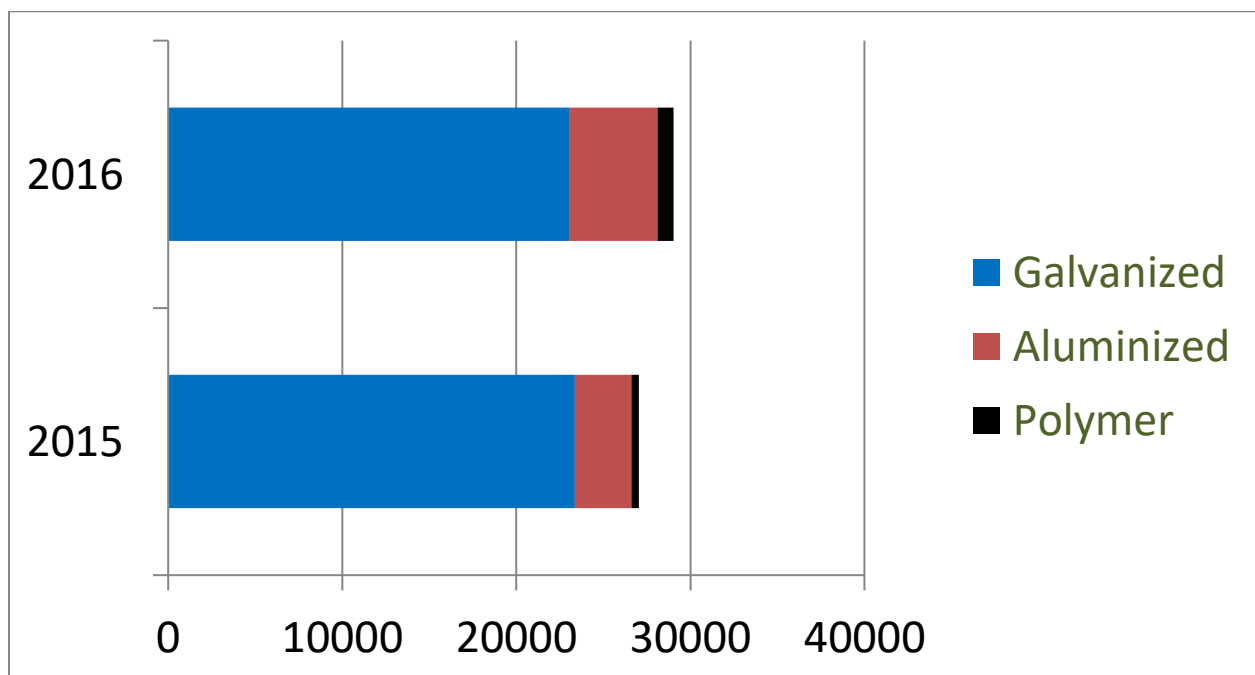


CSPI Tons 2016



Action: Reach out to AK steel to rejoin CSPI.

CSPI Tons 1st Quarter Comparison



b) Key Market Product Approvals

Ray presented the following tables for DOT & Municipalities:

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

Actions DOT:

- 1. Alberta – request sent to move Polymer Laminated from Trial to Approved list of materials. Up for review on July 5th, 2017.**
- 2. Alberta – request grace period for certification and clarification on welding certification issue.**
- 3. Saskatchewan – submitted standard changes on May 26th 2017 to include all materials and certification.**
- 4. Quebec – requested 75-year material service life for Polymer Coated SP and Leland NZF3000 bolts for out of water structures and class 1 Abrasion for structures in the water.**
- 5. Ontario – Set up meeting with MTO / Members to discuss SP Design Manual.**
- 6. Update list this summer reviewing and posting all DOT standards to the member section website.**
- 7. Focus on the Eastern provinces in the winter months for update and change.**

Owner	Gal. CSP	AL2 CSP	PL CSP	Gal. SP	TP SP	HDPE	RCP
Vancouver	No	No	No	No	No	?	Yes
Langley							
Victoria							
Edmonton							
Calgary							
Saskatoon							
Regina							
Winnipeg							
Thunder Bay	No	No	No	No	No	No	Yes
Sudbury							
Toronto							
Hamilton							
London	No	No	No	No	No	No	Yes
Windsor	No	No	No	No	No	No	Yes
Kitchener /Waterloo							
St. Catharines							
Kingston							
Ottawa							
Oshawa							
Montreal							
Sherbrooke							
Quebec City							
Trois- Rivières							
Saguenay							
Fredericton	No	No	No	No	No	?	Yes

Moncton							
Halifax							
St. Johns	No	No	No	No	No	?	Yes

Actions Municipalities:

1. Update list this summer reviewing and posting all Municipal standards to the member section website.

2. Focus on the nine municipalities visited thus far plus:

Region of Waterloo

Ottawa

Toronto

Kingston

Oshawa

Sudbury

St. Catharines

3. Look into requirement of lobbyist registration in Quebec

Randy suggested CSPI investigate Federal Public Works in BC and Parks Canada. Phil volunteered to work with Ray. In addition, add the Yukon & NW Territories to the chart – research and future visit.

c) Number Key Clients visited thus far in 2017

Key DOT Clients Visited

<u>2016</u>	<u>DOT</u>	<u>Engineering Staff Attending</u>
Sept 15th	MTO Head Office - St. Catharines	8
Oct 20th	NS	8
Oct 21st	NB	5

2017

Feb 2nd	MTO – Thunder Bay Region	10
Feb 8th	MTQ – Quebec City	5
Feb 15th	MTO – St. Catharines	8 Regional Bridge Heads
Mar 14th	Sask	5
Mar 21st	Alberta Trans	2 (Certification, Polymer)
Mar 22nd	BCMOT	6
Mar 28th	PEI	2 + 4 Consultants
Mar 30th	NFLD	5
Apr 5th	Manitoba	9

Key Municipalities Visited

<u>2016</u>	<u>Municipality</u>	<u>Engineering Staff Attending</u>
Oct 11 th	City of Calgary	6
<u>2017</u>		
Feb 2 nd	City of Thunder Bay	6
Feb 6 th	City of Fredericton	1 (Chief Engineer)
Feb 6 th	CFB Gagetown	1 (Chief Engineer)
Mar 9 th	City of London	10
Mar 21 st	City of Edmonton	6
Mar 23 rd	City of Langley	1 (Chief Engineer)
Mar 24 th	City of Vancouver	2 (Chief Engineer + Assoc.)
Mar 29 th	City of St. John's	8
Apr 26 th	City of Windsor	6

Randy suggested we encourage DOT's & cities to invite consultants to meetings / presentations.

d) Number of Students/Institutions Presented thus far in 2017

<u>Date</u>	<u>University / College</u>	<u># of Students</u>
Jan 16 th	University of Guelph	250
Jan 24 th	University of Western	30
Jan 26 th	St. Clair College, Windsor	35
Feb 1 st	Lakehead University, Thunder Bay	25
Feb 6 th	University of New Brunswick	20
Feb 7 th	Universite de Moncton	30
Feb 13 th	McMaster University, Hamilton	50
Mar 3 rd	University of Windsor	45
Mar 6 th	University of Saskatchewan	109
Mar 7 th	University of Regina	10
Mar 8 th	OGRA Storm Sewer Course	45 (Heba spoke)
Mar 17 th	Seneca College, Toronto	45
Mar 22 nd	Okanagan College, BC	35
Mar 23 rd	University of BC	30
Mar 27 th	St. Lawrence College, Kingston	36
Mar 29 th	Memorial University, NF	30
Mar 30 th	North Atlantic College NF	30
Apr 4 th	University of Toronto	125

18 Guest Lectures 980 Students

5. Assessment

- a. Are we answering the question why steel?
 - i. SWM feedback

Phil stated yes, however we need to focus on certain areas / municipalities. Randy suggested we explore Tubao and their success.

Action: PPC to decide where and what to focus on.

Action: Ray reach out to Tubao for their advice.

ii. Buried bridge feedback

Opportunity on bridges – feedback was positive. Jason suggested we look at the Coquihalla Highway in BC and do a comparison between buried bridges and conventional bridges that are saddled with deck repairs and costs of servicing. Work with BCMOT on life cycle costing (Rehabilitation versus Buried Bridges). Ray & Phil to reach out to University of BC - work with a grad student to do the study (costs to be estimated).

iii. Product comparison brochures

The first brochure (CSP versus HDPE) was completed and emailed to all members for review. The other three drafts will be completed this summer.

iv. Grad project: Rehabilitation

Kevin outlined the issues from MTO's request for a rehabilitation bulletin. Next step is to meet with MTO and scope out the project (Kevin, Randy & Ray). Kevin stated that working with a grad student from Queen's (Dr. Ian Moore) is the way to go.

- b. Are we penetrating the concrete market?
 - i. Product Approvals

Members agreed to stay the course and also focus on Public Works & Parks Canada.

c. Academic Education feedback

Continue to focus on education outreach and use members for guest lectures when Ray is not available.

6. Discussion / New Business

- Sustainability: LEED and Environmental Product Declaration

Kamran gave a PP presentation outlining the LEED and Sustainability program. Dawn asked about concrete's program and how many points they promote. Kamran stated 5-7. Shane asked if the program included all materials (Galvanized, Aluminized & Polymer). All agreed that it needs to. Kevin stated that the next edition of CHBDC in 2019 will include sustainability. Bruce asked about funding from AISI (\$3,000 in 2017 and request for \$5,000 in 2018). Kamran summed up the program as follows:

- Will take a year to complete
- CSPI will piggy back on AMD's program
- Excellent Marketing tool
- Cost of \$8,500

All were in favor of moving forward. Following are the action items:

- 1) Kamran will advise what data is required by the consultant

- 2) Kamran to advise what information will be required from the manufacturers
- 3) Change Culverts to CSP giving us a broader definition

Future Action: PPC leverage climate change impacts by highlighting the small increase in larger steel structures compared to other materials.

- Product requests: Galvalume, Tee Group (to be discussed at TAC).

Galvalume – John gave an overview as follows:

- AMD is looking to move forward on selling this material into the marketplace
- AMD can make 60.5-inch-wide coils up to 2.0mm gauge and is ready to run
- Alternative to Aluminized Type II?
- Studies & data exist on in ground pipe
- AMD does not want to replace Galvanized but compete with Aluminized

Feedback and questions:

- Jason asked about estimated material service life
- Kamran has data from 2005 and indicates an increase in service life over Galvanized
- Galvalume is in CSA G401 and ASTM929
- Should a consultant look at the data and provide an opinion
- Kevin stated that Pete Ault has published a report on Aluminized Type II and did test some Galvalume sites
- Randy stated that Pete Ault wrote a white paper on polymer coated plate which was very useful in obtaining product acceptance
- Kamran would like to see it accepted in the Ontario Gravity Pipe Design Guidelines
- Kevin stated that we need to know the environmental capabilities of Galvalume
- The focus needs to be on what the environmental range is based upon the existing data

ACTION: TAC agenda item for the next meeting in September.

Tee Group – on hold till we receive more information on salt spray tests

7. Strategic Plan Adjustments

Kamran suggested we produce a one page document outlining the advantages / disadvantages of CSP over concrete, HDPE and Polypropylene. Include freight and installation costs. Dave suggested we pick one diameter for comparison. Heba stated that Alberta has data on structures / coats that can be assessed using Ron Prychitko. Jason suggested we roll this in to the rehabilitation project with the student.

8. Adjourned at & Next Meeting

The meeting was adjourned at 10:22am. Next meeting is the fall meeting in Kitchener at a date TBD.

Ray Wilcock
Secretary