Conveyor Equipment Manufacturers Association

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2021 CEMA VIRTUAL FALL ENGINEERING CONFERENCE
BULK HANDLING SECTION MEETING
Tuesday, November 9, 2021

MINUTES

1. Call to order
   Brett DeVries, FLEXCO, chair; called the meeting to order at 11:15 am

2. Attendance and Introductions – Via virtual registration (roll call attached)

3. Approval of Minutes of June 25, 2019. (Please note that the 2019 Meeting Minutes are the most current since we did not have Bulk Handling Section Meeting during 2020 and 2021 CEMA Engineering Conference) – Minutes were approved.

4. Old Business
   a) **ANSI/CEMA Standard No. 102** – Updates
      Subcommittee: R. Todd Swinderman, RToddS Engineering LLC; Dan Modzeleski, Dematic; Hans Rodgers, SEW – Eurodrive; Clifton Rodgers, Honeywell Intelligrated.
      The standard was approved with comments by ORs. The comments were sent back to the subcommittee for them to review, then it will be sent back for approval, then on to the ANSI review process. It will be back to CEMA by November 12, 2021.
   b) **ANSI/CEMA Standard No. 550** – Updates
      ANSI Revision finished. Approved as of March 17, 2020; and uploaded to the CEMAstore.

5. ARPM Report (attached)

6. New Business
   a) **CEMA Standard No. 705** – Updates
      Approved with comments by ORs. The comments were solved, and the document is ready to be posted after this Fall Engineering Conference.
   b) **CEMA Standard No. 502** – Updates
      The standard is in the formatting process before being sent to the ORs for approval.
   c) **7th Ed. Belt Conveyors for Bulk Materials, 2nd printing – Spanish Version** – Updates
      The Spanish version will be sent to the publisher and the target inventory date is mid-February. The English version is in progress of printing.
   d) **Belt Tracking discussion and Comparison of CEMA and ISO Belt Tracking Allowances** (Topic from the CEMA Pulley Committee) – Updates
      The section considers this a multidisciplinary topic since has been discussed in different individual sessions of the CEMA's Committees. The key people from CEMA's Conveyor Pulley Committee, Conveyor Idler Committee, Bulk Conveyor Accessories Committee will

create a subcommittee but invite them all to join the Bulk Handling Section to review and discuss if a standard needs to be written on this topic.

The table created by Brett DeVries and presented during the Bulk Conveyor Accessories Committee is a good starting point. It will be sent to the subcommittee chair.

The subcommittee was formed to study this: Todd Hollingsworth, Raw Engineering & Design, LLC (Chair); Jim Masek & Jeff Ellis, PPI; Brett DeVries, FLEXCO; Todd Swinderman, RToddS Engineering LLC; Benjamin Brewer, Douglas Manufacturing Co., Inc.; Akiko Wakatsuki, Fenner Dunlop Conveyor Belting, Joshua Holcombe, Continental Contitech North America, Inc.; Chad Brown, Dodge Mechanical Power Transmission Company Inc.

7. Next Meeting – June 14, 2022, at La Playa Beach & Golf Resort, Naples, FL

8. The meeting was adjourned at 11:41 am

Brett DeVries, Chair
Jeff Ellis, Vice-Chair

2021 CEMA VIRTUAL FALL ENGINEERING CONFERENCE - BULK HANDLING SECTION MEETING - Roll Call

Attendance Count	Event Name	First Name	Last Name	Email	Title	Company	Phone	Country/Region
1	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Benjamin	Brewer	bbrewer@douglasmanufacturing.com	Chief Engineer	Douglas Manufacturing	1-2058841200	United States of America
2	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Chad	Brown	cbrown@dodgeindustrial.com	AE Manager	Dodge Industrial	1-8642526195	United States of America
3	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Brett	DeVries	bdevries@flexco.com	Engineer	Flexco	1-6162421636	United States of America
4	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Naylu	Garces	naylu@cemanet.org	Engineering Manager	CEMA	1-2392608009	United States of America
5	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Todd	Hollingsworth	thollingsworth@rawgrp.com	President	Raw Engineering & Design	1-2083779331	United States of America
6	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Andrew	Hustrulid	andrew.hustrulid@almex.com	Sr Vp global Services	Shaw Almex	1-3054501295	United States of America
7	2021 CEMA Fall Engineering Conference - Bulk Handling Section	David	Keech	dkeech@dodgeindustrial.com	Development Engineer	Dodge Industrial	1-8645532101	United States of America
8	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Kimberly	MacLaren	kim@cemanet.org	Mgr. Marketing/Membership	CEMA	1-2392608406	United States of America
9	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Muhammed	Malik	muhammed@luffindustries.com	Mechanical Engineer	Luff Industries Ltd.	1-4032793555	Canada
10	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Jim	Masek	jmasek@ppi-global.com	Engineer	PPI	1-6417803135	United States of America
11	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Gabriel	Moniz	gabriel.moniz@beumer.com	Operations Manager	BEUMER Corporation	1-7208123680	United States of America
12	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Jacob	Rider	jrider@kwsmfg.com	Engineering Manager	KWS Manufacturing	1-8005436558	United States of America
13	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Charlie	Ritinski	charlie.ritinski@shi-g.com	chief product & innovation manager	Sumitomo Machinery of America	1-7576798253	United States of America
14	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Fabian	Rubio	fabian.rubio@beumer.com	Project Engineer	Beumer Corporation	1-8166610291	United States of America
15	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Paul	Schmidgall	p.schmidgall@superior-ind.com	Chief Engineer	Superior Industries	1-6514706441	United States of America
16	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Robin	Steven	robin.steven@continental.com	CS R&D BMH Chief Engineer Steel Cord & Pipe Belts	Continental	1-9375940685	United States of America
17	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Geoff	Stoll	gstoll@richwood.com	Engineering Manager	Richwood	1-3045255436	United States of America
18	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Todd	Swinderman	rtodds.eng@gmail.com	Owner	RToddS Engineering, LLC	1-3865894384	United States of America
19	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Richard	Tomlinson	rich@luffindustries.com	Supervisor	Luff Industries LTD	1-4032793555	Canada
20	2021 CEMA Fall Engineering Conference - Bulk Handling Section	Akiko	Wakatsuki	akiko.wakatsuki@fennerdunlop.com	Sr Manager	Fenner Dunlop	1-4803342115	United States of America

ARPM
ASSOCIATION FOR RUBBER PRODUCTS MANUFACTURERS

November 9, 2021

2021 CEMA Fall Engineering Conference – Bulk Handling Section
Virtual Meeting Format

ARPM Conveyor Belt Committee – Update Report

1) ARPM Standards and Technical Bulletins

A. ARPM IP-1 Conveyor and Elevator Belt Handbook, Fifth Edition, 2016 – In final revision

a. The updated Sixth Edition, 2021 should be published before year's end

b. Will include a new chapter with an energy efficiency label and scale

2) ISO TC41 – SC3 "Conveyor Belts" Committee Activity

A. Committee overview

a. Chairman – Germany

b. Committee manager - China

B. Committee membership

Participating Members P-Members (11)		Observing members O-Members (12)	
Austria	ASI	Czech Republic	UNMZ
Belgium	NBN	Denmark	DS
China	SAC	Finland	SFS
France	AFNOR	Hungary	MSZT
Germany	DIN	Iran, Islamic Republic of	ISIRI
Japan	JISC	Italy	UNI
Netherlands	NEN	Korea, Republic of	KATS
South Africa	SABS	Romania	ASRO
Switzerland	SNV	Russian Federation	GOST R
United Kingdom	BSI	Serbia	ISS
United States	ANSI	Slovakia	UNMS SR
		Ukraine	DSTU

C. Committee meetings

a. Previous committee meeting: September 2019 – Paris, France

b. Future committee meeting: November 30, 2021 – Virtual

7321 Shadeland Station Way, Suite 285 Indianapolis, IN 46256
Phone: (317) 863-4072 **Fax:** (317) 913-2445

D. Current published standards with status:

Standard	Title	Status
ISO 251:2012	Conveyor belts — Laboratory scale flammability characteristics — Requirements and test method	2023 SR
ISO 252:2007	Conveyor belts — Adhesion between constitutive elements — Test methods	Re-Conf
ISO 282:1992	Conveyor belts — Sampling	2024 SR
ISO 283:2015	Textile conveyor belts — Full thickness tensile strength, elongation at break and elongation at the reference load — Test method	Re-Conf
ISO 284:2012	Conveyor belts — Electrical conductivity — Specification and test method	2023 SR
ISO 340:2013	Conveyor belts — Laboratory scale flammability characteristics — Requirements and test method	FDIS
ISO 433:2017	Conveyor belts — Marking	2026 SR
ISO 505:2017	Conveyor belts — Method for the determination of the tear propagation resistance of textile conveyor belts	2022 SR
ISO 583:2007	Conveyor belts with a textile carcass — Total belt thickness and thickness of constitutive elements — Test methods	Re-Conf
ISO 703:2017	Conveyor belts — Transverse flexibility (troughability) — Test method	2026 SR
ISO 1120:2012	Conveyor belts — Determination of strength of mechanical fastenings — Static test method	2022 SR
ISO 3684:1990	Conveyor belts — Determination of minimum pulley diameters	2022 SR
ISO 4195:2012	Conveyor belts with heat-resistant rubber covers — Heat resistance of covers — Requirements and test methods	2023 SR
ISO 5284:1986	Conveyor belts — List of equivalent terms	2021 SR
ISO 5285:2012	Conveyor belts — Guidelines for storage and handling	2023 SR
ISO 5293:2004	Conveyor belts — Determination of minimum transition distance on three idler rollers	2024 SR
ISO 7590:2018	Steel cord conveyor belts — Methods for the determination of total thickness and cover thickness	2023 SR
ISO 7622-1:2013	Steel cord conveyor belts — Longitudinal traction test — Part 1: Measurement of elongation	2023 SR
ISO 7622-2:2015	Steel cord conveyor belts — Longitudinal traction test — Part 2: Measurement of tensile strength	Re-Conf
ISO 7623:2015	Steel cord conveyor belts — Cord-to-coating bond test — Initial test and after thermal treatment	Re-Conf
ISO 8094:2013	Steel cord conveyor belts — Adhesion strength test of the cover to the core layer	2023 SR
ISO 9856:2016	Conveyor belts — Determination of elastic and permanent elongation and calculation of elastic modulus	In SR
ISO 10247:1990	Conveyor belts — Characteristics of covers — Classification	2024 SR
ISO 14890:2013	Conveyor belts — Specification for rubber- or plastics-covered conveyor belts of textile construction for general use	2022 SR

ISO 15147:2012	Light conveyor belts — Tolerances on widths and lengths of cut light conveyor belts	2023 SR
ISO 15236-1:2016	Steel cord conveyor belts — Part 1: Design, dimensions and mechanical requirements for conveyor belts for general use	In SR
ISO 15236-2:2017	Steel cord conveyor belts — Part 2: Preferred belt types	2021 SR
ISO 15236-3:2017	Steel cord conveyor belts — Part 3: Special safety requirements for belts for use in underground installations	2022 SR
ISO 15236-4:2004	Steel cord conveyor belts — Part 4: Vulcanized belt joints	2022 SR
ISO 16851:2012	Textile conveyor belts — Determination of the net length of an endless (spliced) conveyor belt	2023 SR
ISO 18573:2012	Conveyor belts — Test atmospheres and conditioning periods	2023 SR
ISO 20238:2018	Conveyor belts — Drum friction testing	2023 SR
ISO 21178:2020	Light conveyor belts — Determination of electrical resistances	2023 SR
ISO 21179:2013	Light conveyor belts — Determination of the electrostatic field generated by a running light conveyor belt	2025 SR
ISO 21180:2013	Light conveyor belts — Determination of the maximum tensile strength	2023 SR
ISO 21181:2013	Light conveyor belts — Determination of the relaxed elastic modulus	2023 SR
ISO 21182:2013	Light conveyor belts — Determination of the coefficient of friction	2023 SR
ISO 21183-1:2005	Light conveyor belts — Part 1: Principal characteristics and applications	Re-Conf
ISO 21183-2:2018	Light conveyor belts — Part 2: List of equivalent terms	2025 SR
ISO 22721:2007	Conveyor belts — Specification for rubber- or plastics-covered conveyor belts of textile construction for underground mining	In SR
ISO/CD 23586	Conveyor belts — Indentation rolling resistance related to belt width — Requirements, testing	FDIS

Notes:

1) 20XX SR = years that Systematic Reviews (SR) are due
2) Re-Conf = Current document version was re-confirmed for another 5 years
3) FDIS = Document in “Final Draft Industry Standard” stage; due to be published shortly
4) In SR = Document in the Systematic Review process