



2019 CEMA ENGINEERING CONFERENCE BULK BELT SYSTEMS AND EMERGING TECHNOLOGIES COMMITTEE

La Playa Hotel, Naples, FL
Tuesday, June 25, 2019

MINUTES

1. Called to order at 2:27 pm
2. Attendance and Introductions
3. Review and Approval of June 26, 2018 Minutes – Minutes were approved
4. Old Business
 - a) **Ceramic Lagging** – Updates
Subcommittee: Paul Ormsbee, Overland Conveyor Co. (chair), Andrew Jennings, Conveyor Dynamics, Inc.
 - Created Document with text on existing commentary in the Belt Book and suggested bullet points for new material.
 - Added to the subcommittee: Laura Hoggan, Rema TIP TOP; Jeff Elis, PPI; Andrew Hustrulid, Shaw Almex Industries, Ltd.
 - b) **Cleated & Sidewall Belt for Incline Applications** – Updates
Subcommittee: Geoff Normanton, Fenner Dunlop (chair); Robin Steven, ContiTech North America, Inc.; Akiko Wakatsuki, Fenner Dunlop; Laura Hoggan, Rema TIP TOP.
 - Geoff Normanton offered a report
 - The subcommittee reviewed the Belt Book and the Terminology, possible minimum pulley dimension over sidewall.
 - c) **Energy Efficiency Scale – Develop Scale** – Updates
Subcommittee: Robin Steven, ContiTech North America, Inc. (chair); Todd Swinderman, RToddS Engineering, LLC.; Andrew Jennings, Conveyor Dynamics, Inc.; Paul Ormsbee, Overland Conveyor Co. Inc.; Akiko Wakatsuki, Fenner Dunlop; Andrew Hustrulid, Shaw Almex Industries, Ltd.; Thomas Hubbert, Dos Santos International.
 - Two (2) universities (Hannover/Newcastle) are working on this subject where some students will study the connection between various test methods. Compare/analyze testing methods. Develop scale. Potential for national standards. For belt rubber efficiency.
 - CEMA has no role to play until this is done.
 - Topic tabled until they do the study.

d) **Gearless Conveyor Drives** – Updates

Subcommittee: Raul Morales, Rexnord Industries LLC (chair); Alex Vitou, ABB Motors and Mechanical Inc.; Eric Jackson, TAKRAF USA, Inc.; Charlie Ritinski, Sumitomo Machinery Corp. of America; Luis Estay, Bechtel Mining & Metals; Todd Hollingsworth, Engineered Conveyor Systems LLC.

- Asked for more inputs from the group
- Alex Vitou, ABB Motors and Mechanical Inc. will be the new chair of the subcommittee.
- The subcommittee will review the text and offer guidance on typical use and evaluation processes.
- Added to the subcommittee: Gerhard Schmidt, TAKRAF USA, Inc.

e) **Appendix D – Installation Standard** – Updates

Subcommittee: Todd Swinderman, RToddS Engineering, LLC (chair); Rick Tschantz, Imperial Technologies Inc.; Ian Landry, Hatch.

- Todd Swinderman asked for more feedback
- It was boiled down to three (3) summary pages
- Model was based on info from “Good Ol’Boys” but not much modern specifics but wanted more feedback
- Added to the subcommittee: Colin Barbeau, Hatch; Jim Masek, PPI; Paul Ormsbee, Overland Conveyor Co.; Akiko Wakatsuki, Fenner Dunlop; Robin Steven, ContiTech North America, Inc; Luis Estay, Bechtel Mining & Metals; Laura Hoggan, Rema TIP TOP/North America, Inc. (inviting others in her organization)
- Removed from the Subcommittee: Ian Landry

f) **Idler Maintenance Safety** – Item tabled

Subcommittee: Ian Landry, Hatch (chair); Eric Jackson, TAKRAF USA, Inc.

- Colin Barbeau presented a survey results of method/equipment.
- The current monitoring device work with along the conveyor.
- Suggestion will be to develop into text by next year (before 2020 CEMA Engineering Conference)
- Added to the subcommittee: Tim Wolf, PPI; Jeff Stoll, Richwood; Colin Barbeau, Hatch.
- Removed from the Subcommittee: Ian Landry

g) **DEM Transfer Chute Design/Analysis** – Updates

Subcommittee: Matthew Koca, FLEXCO (chair); Andrew Jennings, Conveyor Dynamics, Inc.;

- No subcommittee members were present
- Paul Ormsbee added as chair to the subcommittee. Colin Barbeau, Jeff Stoll added as volunteers.
- Topic tabled until 2020 CEMA Engineering Conference

h) **High Speed Belt Trajectory – Related to System Design** – Tabled – Chapters 1,2 and 6 updates due to tabled decision to not move forward with 8th Edition Belt Book at this time.

i) **2nd Printing of 7th Edition, CEMA Belt Conveyors for Bulk Materials** – Updates from Subcommittee review. (Errata List attached)

- Todd Swinderman volunteered to review the final Errata list and provide information to Naylu Garces.

5. New Business
 - a) **CEMA White Paper** – Volunteers needed
Topic: Industrial Internet of Things relating to Safety
Volunteer: Johnny Wheat, 4B Components
 - b) Suggestion to cover Moment Couplings and Drive coupling as Shaft Mount
 - Alex Vitou, Raul Morales Rick Collins will co-write a white paper to educate a bit on how this is becoming more common.
 - c) Paul Ormsbee suggested update to CWD factor was needed.
 - Need to present case to OR for funding.
 - Andrew Hustrulid offered to help make the case.
6. Next Meeting – June 16, 2020, La Playa Hotel, Naples, FL.
7. Meeting was adjourned at 3:51 pm

Respectfully submitted,
Paul Ormsbee, Chair
Todd Hollingsworth, Vice Chair

EC 2019 - Bulk Belt Sys and Emerging Tech Meeting Roll Call - June 25

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