

AGENDA

ACI COMMITTEE 221 – AGGREGATES

ACI Fall Convention 2019 – 10/22/2019 (Tuesday), 11:00 AM-1:30 PM, C-264, Duke Energy Convention Center, Cincinnati

1. Call to order and introductions
2. Review and approval of Fall 2018 meeting minutes
3. Membership – Voting Members (22), Consulting Members (5) and Associate Members (23)
4. Report from the TAC contact – report from the workshop for technical committee chairs
5. ACI research council proposal review and provide recommendations – One proposal submitted - Endorsement requires the TC chair or task group chair to complete the approval form and submit results of an administrative ballot - Deadline to complete a Committee administrative ballot: November 15.

6. Updates on the AAR document

- a. 201/221 joint document development on AAR
 - i. An administrative ballot has been initiated on 8/2/2019 on “Should Committee 201 and Committee 221 develop a joint document with the singular focus of providing guidance on alkali-aggregate reactivity (AAR) and its effect on concrete?” – Ballot results: 19 – affirmative, 1 – negative, 0- abstain, 4 – not returned
 - ii. It passed 95.0% Aff in 221, 96.7% Aff in 201 with one negative in 201 and one negative in 221.
 - iii. Next step: the appropriate information (rationale and negatives) from the committee web sites will be assembled by TAC for a ballot. At this point, this item will possibly be placed as the TAC agenda rather than try to squeeze in a web ballot. We need approval from TAC to proceed with the joint document development. Once we get the approval the next step will be to fill out a document revision plan
 - iv. Outline development of the joint document – Earlier a revised outline was balloted in 221 on 8/3/2018 with the ballot results of 13 – affirmative, 4 – affirmative with comments, 2 – negatives, 0 – abstain, 4 – not returned (Item meets the ½ Rule as well as the 2/3 Rule). The negative comments are no longer valid comments as we are now talking about developing a joint document. This outline can serve as a draft outline for the joint document. This will be discussed in subcommittee (201-H).
- b. Updates on developing Chapters 1, 2 and 3 according to the approved revised outline will be provided
 - i. Chapter 1: Introduction – after completion of Chapters 2 and 3, a new introduction will be written
 - ii. Chapter 2: (i) Mechanism of Alkali-Aggregate Reaction (developing a new Chapter) - Volunteers for the ASR portion: Kai-Wei (Victor), Anol, (ii) Volunteers for the ACR portion: Mengesha Beyene, Pierre Luc Fecteau, Benoit Fournier, Tetsuya_Katayama
 - iii. Chapter 3: Role of Aggregate Minerology (developing a comprehensive new chapter) - Volunteers for the ASR portion: Kai-Wei (Victor), Kristen, Anol, (ii) Volunteers for the ACR portion: Pierre Luc Fecteau, Mengesha Beyene, Benoit Fournier, Tetsuya_Katayama

7. **Updates on the revision of the main Document (221R-96)** – A combined approach of (a) identifying the items that are out of date (old information not relevant, deletion), (b) identifying new information (supported by identifying important / relevant recent references) not included, and (c) incorporating changes (addition), was adopted to revise all the chapters. A chapter-wise short discussion to go through what has been achieved and what needs to be done to resolve some of the negatives and improve the revision process, will be conducted

- a. **Chapter 1- INTRODUCTION:** A letter ballot has been posted on 3/12/2019, **Volunteers: Mark, Alf, Jim Casilio and Anol;** Ballot results (Document meets the ½ Rule as well as the 2/3 Rule): 13-Affirmative, 3 – affirmative with comments, 2 – negatives, 6 – not returned; document has been revised to take care of two negatives, some more discussion is needed in the committee meeting (CM) to make the Table more clear (**April Snyder** will lead this effort). After that the document will be again balloted to get committee approval.
- b. **Chapter 2: PROPERTIES OF HARDENED CONCRETE INFLUENCED BY AGGREGATE PROPERTIES** – A preliminary revision was done by **Larry Shutter** – volunteers will be identified in the CM for further thorough revision to cover the above 3 aspects (a, b, and c)
- c. **Chapter 3—PROPERTIES OF FRESHLY MIXED CONCRETE INFLUENCED BY AGGREGATE PROPERTIES:** A significant revision has been made and the revised Chapter has been posted as a letter ballot on 10/3/2019, An update will be provided on “the basis of revision” and ballot results so far, **Volunteers: Kristen Freeman, Jim Casilio, Dave Rothstein and Anol**
- d. **Chapter 4—EFFECTS OF PROCESSING AND HANDLING OF AGGREGATES ON PROPERTIES OF FRESHLY MIXED AND HARDENED CONCRETE:**
Volunteer: **Jim Casilio and Anol**
 - i. A letter ballot has been posted for the revised version on 3/12/2019, ballot results: (Item meets the ½ Rule as well as the 2/3 Rule with 11-Affirmative, 4 – affirmative with comments, 3 – negatives, 6 – not returned)
 - ii. The document has been revised (2nd time) to take care of the negative votes and re-balloted on 8/23/2019, Ballot results: (Item meets the ½ Rule as well as the 2/3 Rule with 13-Affirmative, 3 – affirmative with comments, 0 – negatives, 0-abstain, 8 – not returned)
 - iii. The Chapter is ready to send to TAC
- e. **Chapter 5: QUALITY ASSURANCE** – A revised version has been developed and balloted on 10/9/2019, **Volunteers: Mark Lukkarila, John Fox, and Anol**
- f. **Chapter 6: —MARGINAL AND RECYCLED AGGREGATES** - Committee decided in Spring 2018 meeting to produce two separate chapters, i.e., one on “RCA” and another one on “Beneficiated Aggregates” instead of “Marginal Aggregates”
 - i. The RCA chapter is under revision (2nd revision) and will be balloted before the Fall 2019 meeting. **Volunteers: Xijun Shi, Leandro F. M. Sanchez, and Anol**
 - ii. John Perry volunteered to write a chapter for Beneficiated Aggregates
- g. **Chapter 7—Heavyweight aggregates:** A revised version has been developed and balloted on 10/9/2019, **Volunteers: Mark Lukkarila, John Fox, and Anol**
- h. **Chapter 8: Sustainability Chapter:** This Chapter has been approved on 12/10/2015.

- i. **Chapter 9** – References: while revising each chapter, new references are added. These references will finally be added to the existing reference list in order to revise this Chapter.

- 8. Other Business – Preparation of Technotes (part of Guide) / Emerging technology report (ETR) part of report, Mini session
- 9. New Business:
- 10. Adjournment