

MINUTES

ACI Committee 241 - Nanotechnology of Concrete
ACI Spring Convention 2018
Olympus – Little America Hotel – Salt Lake City, Utah
Sunday March 25, 2018

1. Call to order and welcome by Chair of Committee at 4:00 pm
2. Round table introduction of members and visitors
3. Membership update (93 Members including 57 voting and 26 associate members, subcommittee 7, liaison members 1)
4. Professor Shah presented the meeting of the Steering Committee
 - a. Discussion on Task Groups
 - b. Discussion on Sessions
 - c. Discussion on Tech Notes
 - d. Discussion on Publications to CI
5. Discussion of minutes from Spring 2017. Ali Said moved and Liberto Ferrara seconded the motion. The minutes were approved.
6. Report of Subcommittee 241A, Jon Belkowitz presented subcommittee work
 - a. “Colloidal nanosilica for ASR” discussed a Technote being prepared on that
 - b. Subcommittee will meet on Tuesday
7. Report by 241 TG1 by Kenjin: on dispersion on nanoparticles in concrete Kejin Wang and Shiho Kawashima on. Kejin reported on the task group plan to work on the followings
 - a. Task group met at 2:00 pm and discussed Technotes on
 - i. Dispersion method
Outlines of the state of the art has been discussed in the TG meetings
 - b. Proposed sessions by Task Group
 - i. Nano-modified cement paste materials will be in Las Vegas and speakers lineup
 - ii. Spring 2019 – Nanoparticles dispersion and applications – The speakers
 - c. State of the art report reviewed and approved by TAC and will be starting work on
8. Report by TG2 by Maria Konsta: The task group mission was sent to ACI and related to nanofibers. The goal and mission related to disseminate knowledge and develop sessions have been introduced to ACI. The very general
9. Task Group 3, no progress yet and we need to submit formal request.
10. Task Group 4, no progress yet and we need to submit formal request.
11. Task Group 5, no progress yet and we need to submit formal request.
12. Mahmoud Taha will share the Task Group Formal Request with all the task group leaders to make an official request to ACI.
13. Konstantin discussed the contents of the Technote and the need to work on these Technotes. Konstantin discussed the need to submit the requests for Technotes to the committee. Kejin discussed the Technote concept and content. Konstantin showed example Technote and discussed the length of the document.
14. If you are submitted a Technote it shall be approved first before starting to work on the document.
15. Mahmoud Taha reported on the mini-session on smart concrete using polymer nanocomposites will take place in this convention in Anaheim.
16. The subcommittee 1 will cancel the ballot and submit the Technote early for approval by TAC.
17. Upcoming Convention Sessions

- a. Analytical techniques on nano-modified concrete-brining the nanoscale to the bigger world – Las Vegas – Fall 2018. Six speakers into the session. There will be also a mini sessions and beyond modulus and using nano-indentations.
 - b. Liberto Ferrara reported on two sessions on emerging technologies by committee with fiber reinforced concrete 544.
 - c. Jon reported on case studies session. Mini-session to take place in Las Vegas – Jon Belkowitz and Kejin Wang
 - d. There will be a session on protective coating using nanomodified materials. Mahmoud Taha will lead it with XYZ. The application will be directed to Quebec City.
 - e. Maria will apply for session on “*Smart and Multi-functional nano-engineering cement based materials*”. to take place in Quebec city. Maria solicited the titles and authors. The deadline is this Friday.
 - f. Nanoparticles dispersion and applications, Shiho will apply for this session to take place in Quebec City.
18. Special Publications
- a. Mohamed Basouni reported on the special publication on nanomaterials for improved performance. We received 13 abstracts and we are waiting for another week. Committee members will be invited to review the papers.
 - b. Mahmoud Taha reported that another SP on polymers in concrete to come to the committee very soon.
19. Lila discussed the issue of health and impact on using nanoparticles in concrete. There is proofs needed for the industry. Lila will chair a task group on safety and health. TG6: Health and Safety Issues. Lila agreed on making a presentation on this issue and work with the committee on it.
20. Upcoming Conferences
- a. NICOM-6 papers are due on April 1st and the conference in Hong Kong in December 2018. The deadline will be extended. A selection of the papers will be published in a special issues of journals.
 - b. There will in TRB a meeting for the emerging technology committee. TRB will put a second conference in 2020. The last one was in Irvine. TRB will be in 2020 in Irvine. Final word to be TRB.
 - c. ICPIC 2018 will take place in Washington DC in April 29, 2018. All committee members are invited to participate.
 - d. Second workshop on Durability and Sustainability in Moscow on June 6-7, 2018.
 - e. ICCG conference in Prague
 - f. Poster competition by Concrete Nanotechnology Science (CNNS). CNNS will run a poster competition and posters by May 15, 2018 and support graduate students to present his/her work in NICOM6. Up to 10 posters might be selected. Please communicate to Konstantin if you are interested.
21. ASTM is working on specification on colloidal silica and is currently being reviewed. The new document is under ASTM WK60809 is currently in review. Looking at the silica content in similar to other documents by ASTM specifying silica fume.
22. The committee discussed on publications on Concrete International where the work is voiced and mission of committee.
23. Second forum will be organized in Jinan University and will be focused on characterization of cementitious materials from fluid to solid state. 200 people expected in May 2018.
24. Next Meeting in Las Vegas, Nevada Utah in October 2018.
25. Meeting adjourned – at 5:28 pm.