

ACI Committee 549
A. Nanni, Chair; C. Aldea, Secretary
Thin Reinforced Cementitious Products and Ferrocement
ACI Fall 2021 Convention, Virtual

Virtual Meeting Agenda
Sunday October 17, 2021 - 1:00 PM-3:00 PM

1. **Call to Order**
2. **Approval/changes to Agenda**
3. **Approval of Previous Meeting Minutes**
Action items from minutes
4. **Announcements, Sessions co-sponsored by ACI 549**
 - From the floor
5. **Status on membership**
 - Aldea to report on current membership
6. **Active Committee Documents:**

Revisions and appropriate actions for existing documents

- **549R-18**: Report on Ferrocement
No action until **2022**
- **549.1R-18**: Guide for the Design, Construction & Repair of Ferrocement
No action until **2022**
- **549.3R-09 reapproved 2017**: Report on Glass Fiber-Reinforced Concrete Premix. 549.3R-09 (Reapproved 2017).
 - i. Neil Sparrow leading a task group on the revision of this document
 - ii. Work to start after 549.5R is completed
- **549.4R-20**: Guide to Design and Construction of Externally Bonded Fabric-Reinforced Cementitious Matrix (FRCM) Systems for Repair and Strengthening Concrete Structures
Published. No action until **2024**
- **549.5R-16**: Report on Spray-up and Continuous Strand Glass Fiber Reinforced Concrete (GFRC)
 - i. Neil Sparrow leading a task group on the revision of this document.
 - ii. First ballot completed
 - iii. Responding to N and AC votes

- **549.6R-20**: Guide to Design and Construction of Externally Bonded Fabric-Reinforced Cementitious Matrix (FRCM) and Steel-Reinforced Grout (SRG) Systems for Repair and Strengthening Masonry Structures.

No action until **2024**

7. New Documents Under Development

- None

8. Subcommittee activities

- **Report from 549-0K** – FRCM/SRG Material Characteristics (H. Hadad Chair) interfacing with task group in ASTM C09-46. Submitted a request to develop a new document: “Test Method for Evaluation of Bond Properties of FRCM/SRG Composites Applied to Concrete Substrate using Single-Lap Shear Test – Guide”

9. Liaison Member Reports

- ACI 440 – A. Nanni
- ACI 544 – C. Aldea
- ACI 239 – L. Rowland
- ASTM C09, C17 and ASTM C27 – TBD
- RILEM/fib subcommittee – B. Mobasher

10. Meeting time for next Convention

Next meeting day and time (proposed assuming in-person)

- 549-0K, Sunday 8:00-10:00
- 549-Main, Sunday 10:00-noon

11. New Business

- New chair of 549 after Spring convention

12. Around the table (time allowing)

Presentations of current activities by members and guests

13. Adjourn

ACI GFRC Review of 549 5R and 549 3R:

First, I would like to personally thank the ACI for honouring me with the task of reviewing and updating their GFRC documents, and I would also like to thank the other members of the Review Group, from both the ACI and my colleagues in the GRCA, without whose input this work would not be progressing.

After seeking volunteers from the ACI membership to join the Review Group, the work on the “**549.5R Spray-up Process GFRC**” document commenced with a remote video meeting on 19th January 2021. This meeting allowed everyone to introduce themselves, and their particular areas of expertise, to the Group. I was encouraged to hear that **no one believed there were any major issues with the document, and it only required a refresh and update of some of the contents** (such as new dates/revised standards/etc.). Since then (including today!), everyone has been sending me their comments, suggestions and proposals. We have not yet felt it necessary to convene a further meeting, and I am now in the process of incorporating all of the submissions into a draft revised document for the Group’s final review, before passing it back to Toni/the ACI for the next stages. Despite various requests, the Review Group have so far **produced nothing in the way of updated images**, and I need to urgently address this (possibly with the assistance of the wider ACI/GRCA membership?).

The Group then commenced work on the review of the second ACI document, “**549.3R Premix GFRC**”, on a similar basis to the first document, on 18th March 2021. We have currently set ourselves a target date for the return of comments, suggestions and proposals of 14th May, but early indications are that this clashes with other work and commitments, so **mid-June is probably more realistic**. Early indications are again that there are **no major or contentious issues** which need addressing. The proposal with the second document is exactly as the first, with all of the submissions received to be incorporated into a draft revised document for the Group’s review before passing it back to Toni/the ACI for the next stages.