

ASHRAE TC 6.7 General Meeting 22 January 2024

Chicago, IL, USA - Hybrid meeting

APPROVED MEETING MINUTES

ASHRAE 6.7 – SOLAR AND OTHER RENEWABLE ENERGIES

List of Attendees

| First Name | Surname | Initials |
|-------------------|----------------|-----------------|
| Andreas | Athienitis | AA |
| Yanda | Azhang | YA |
| William | Bahnfleth | WB |
| Costa | Balaras | CB |
| Ongun | Berk Kazanci | OB |
| Atma | Bhawuk | AB |
| Bruce | Billedeaux | BB |
| Mohammad | Biswas | MB |
| Yavuzturk | C | YC |
| Doug | Cohrane | DC |
| Elena | Daskalaki | ED |
| Veronique | Delisle | VD |
| Jacob | Dereiner | JD |
| Ehsan | Ebrahimnia | EE |
| Steve | Ehrman | SE |
| Erin | Gaucher Locks | EGL |
| Mehta | Gaurav | MG |
| Timothy | Gordon | TG |
| Richard | Hayter | RH |
| Eric | Johansen | EJ |
| Joshua | Kading | JK |
| Christopher | Kampf | ChK |
| Costa | Kapsis | CK |
| Raji | Khoura | RK |
| Dexin | Kong | DK |
| Dan | Lawlor | DL |
| Frank | Li | FL |

| | | |
|------------|------------|-----|
| Valerie | Lisi | VL |
| Janice | Means | JM |
| Tim | Merrigan | TM |
| Qu | Ming | QM |
| Xavier | Morgan | XM |
| Svein | Morner | SM |
| Khalid | Nagini | KN |
| John H. | Nix | JHN |
| John | Noe | JN |
| Herve | Nouanegue | HN |
| Merdad | Poursadegh | MP |
| Doug | Reindl | DR |
| Stratos | Rounis | SR |
| Bill | Roy | BR |
| Devon | Scheg | DS |
| Andrew | Shore | AS |
| Anna Maria | Sigounis | AMS |
| Dominique | Taudin | DT |
| Michael | Vogel | MV |
| Mike | Wassmer | MW |
| Mehdi | Zeyghami | MZ |

TC 6.7 Secretary: Stratos Rounis

1. Welcome

The meeting was called to order by Chair CK at 4.30 pm CST, January 22, 2024 and introductions were made.

Before sharing the agenda, DR and JHN proceeded with several announcements.

DR would share tips regarding having programs/seminar approved with CK. DR mentioned that the current strategic of ASHRAE will be updated and it is an opportunity for members of TC 6.7 to provide input, especially members that have knowledge of international standards.

DR and CK discussed ways to get more members engaged on general meetings. Ideas for more visibility of the TC were discussed (youtube videos, implementation of AI to make ASHRAE material more accessible). CK proposed to share with DR the activities of the Outreach Committee.

JHN announced that there may be joint opportunities with TC 6.9 (Thermal Energy Storage). The standard on the performance of thermal energy storage system has been completed and is ready for public review. JHN and CK discussed about the possibilities of cosponsoring seminars and e-learning modules. CK to send a seminar program to JHN.

2. Roll Call and Introductions. Determination of quorum.

Current voting members:

Costa Kapsis (June '24); Ahmed Elatar (June '24); James Leidel (June '25) Marija Todorovic (June '26); Veronique Delisle (June '24); Timothy Merrigan (June '25); Constantinos Balaras (June '26); Gaylen Atkinson (June '24)

Present

| | |
|-------------------------------------|------------------|
| <input checked="" type="checkbox"/> | Costa Kapsis |
| <input type="checkbox"/> | Ahmed Elatar |
| <input type="checkbox"/> | James Leidel |
| <input type="checkbox"/> | Marija Todorovic |

| | |
|-------------------------------------|----------------------|
| <input checked="" type="checkbox"/> | Veronique Delisle |
| <input checked="" type="checkbox"/> | Timothy Merrigan |
| <input checked="" type="checkbox"/> | Constantinos Balaras |
| <input type="checkbox"/> | Gaylen Atkinson |

A quorum was met (CK, VD, TM, CB)

3. Scope & Agenda

CK presented the scope of TC 6.7. The Code of ethics was presented.

After introducing scope, CK asked if there were items to add to the agenda. No items were added.

CB moved a motion to adopt the agenda. VD seconded.

The agenda was approved with 4 votes (CB, CK, VD, TM)

4. Review and approval of meeting minutes for ASHRAE Winter Conference 2023, Atlanta.

Chair proceeded with the approval of minutes of the TC6.7 meeting during the ASHRAE Annual Conference 2023 in Tampa.

CB moved motion to approve the minutes. VD seconded.

There was no further discussion

Minutes were approved with 3 votes (CB, CK, VD). TM abstained because he did not have chance to review.

6. Handbook Subcommittee Update (Veronique Delisle)

VD provided an update on timeline and overview of content reconstruction. At this point there are no changes for Systems and Equipment. VD reiterated the purpose of the restructure and provided update of the restructure progress (currently in phase 2) done by VD and EGL. Examples of the restructuring process were shown.

VD stressed that the next big priority will be HVAC Applications, which will be updated in 2026-2027.

There was a discussion whether there are going to be storage related applications, VD pointed out that this is part of the Systems and Equipment handbook. There was further discussion whether storage systems and heat pumps (i.e. combi systems) could be considered RE systems.

VD presented the next steps of the restructuring process.

VD urged volunteers for the different sections to contact her, to discuss which section they would be more comfortable with. Several participants volunteered. VD will reach out to them directly for the next steps.

CK suggested having an interim TC meeting before the Indianapolis meeting, to vote on the table of contents. CB agreed.

7. Program Subcommittee Update (Costa Kapsis)

CK presented the two approved seminars and mentioned that there are also 2 co-sponsored seminars. The program for Indianapolis was discussed. CK asked for ideas for proposals and suggested that they already working to revise a seminar that was previously rejected by creating a more coherent content. VD suggested keeping it for the winter meeting. KN proposed a seminar on PV carports, commercial parking with PV and lighting. There was a discussion on whether parking is considered a building. CK asked KN if he would be willing to present.

FL discussed adding community level planning to the discussion on solar applications.

AA could prepare a seminar on MPC.

SM proposed preparing a presentation on PV optimization (capacity, efficiency, economics etc.).

HN could prepare presentation on demand-response management through MPC – cosponsored with TC 7.5 (for Orlando).

Action Items:

- CK to coordinate with FL regarding the presentations.
- SM to look for potential presenters
- CB and JM to be chairs for S1 and S2, respectively

8. Membership and Outreach Subcommittee Meeting

AMS talked about webinars on the education on TC 6.7. 1st presentation: Climate Change and resilience. Webinar available on youtube.

Climate Change (Prof. Janice Means)

<https://www.youtube.com/watch?v=jTuQFuoSd6E>

Powering Your Electric Vehicle With The Sun (Khalid Nagidi)

<https://www.youtube.com/watch?v=h8KJw1ezzY&t=297s>

AMS created LinkedIn account for TC 6.7 and youtube page where first webinar has been uploaded. CK is going through the document and there are major incomplete sections try to fill out.

8. Research Subcommittee Update (Costa Kapsis)

CK and JM will act as interim chairs. JM discussed the need to finalize the work statement. CK mentioned that he is going through the document and there are major incomplete sections.

9. Standards Subcommittee Update (Marija Torodovic)

The Guide for Preparing Active Solar Heating Systems Operation and Maintenance Manuals (1990) and its relevance was discussed.

CK mentioned that US and Canada have their own guidelines. Suggested moving away from this guideline. To be voted upon during the general meeting

Action Items: CK to upload copy to basecamp.

10. Membership and Outreach Subcommittee Update (Anna-Maria Sigounis)

The 1st presentation on: Climate Change and resilience was completed. AMS informed that the webinar is available on the TC 6.7 youtube page. AMS has also created a LinkedIn page for the task.

The possibility of creating an introductory video for the task's activities was discussed.

Next steps: plan follow-up webinars (2 before Indianapolis). CB and KN potential next speakers.

JM announced that TC 2.5 requested permission to put JM presentation on their page. CB congratulated JM for her contribution.

CB suggested adding a short survey at the end of webinars to have feedback.

VD asked adding PV potential in Canada and BIPV as prospective seminars.

11. Web Page Update (Svein Morner)

SM informed that he has regained access, and the web page is now working.

SM asked for all approved minutes to be resent.

12. Old Business

KN asked to reconsider putting TC meetings on Mondays. CK and CB proposed having the subcommittee meeting online and ideally one week in advance.

13. New Business

No New Business

14. Adjournment

VD moved motion to adjourn the meeting. CB seconded. Meeting adjourned at 7 pm CST.