

# TC 4.5 Research Subcommittee Meeting - Minutes

Sunday, June 24, 2012  
3:00 – 4:00 p.m.

Hyatt  
San Antonio, TX

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## Minutes

1. Ray McGowan (NFRC) called the meeting to order at 3 pm. Anil Parekh, the present chair, could not attend.
2. Attending: Willie du Pont, Thanos Tzempelilas, Roger LeBrun, Mahabir Bhandari, Aziz Laouadi, Chris Gueymard, Charlie Curcija, Ray McGowan, Christian Kohler
3. PES Reports on Research Projects
  - a. WS 1415 **Thermal and Optical Analysis of Tubular Daylighting Devices**. Willie du Pont reported the work is nearly done. Aziz Laouadi will provide a presentation of the work June 25, 2012 at this current ASHRAE meeting. PMS must submit final paperwork for completion.
4. Overview of current TC 4.5 RTARs and Work Statements
  - a. WS 1414 **Update of U-factors, Solar Heat Gain Coefficients and Visible Transmittances of Standard Fenestration Units made from Representative Fenestration Frame and Glazing Systems to in the Fenestration Chapter of Handbook of Fundamentals**. Charlie Curcija, Bipin Shah, and Willie du Pont will consider this WS and present it at the TC4.5 tomorrow for a possible vote. The RSC chair will get to this WS to RAC by August 15.
5. Other RTARs
  - a. **TC 4.7, Procedure to create hypothetical layer-by-layer fenestration descriptions when only the bulk properties such as U-factor and SHGC have been defined**” Joe Huang not present, did not report. TC4.5 will cosponsor the project, but does not fully support. This project is thought to be at the RAC for final approval, but unconfirmed.
6. Long-Range Research Plan
  - a. Follow up progress on RTAR ideas:
    1. Develop Convective Heat Transfer Coefficient for Indoor and Outdoor Shading Devices (Lead John Wright, Charlie and Thanos) Thanos Tzempelilas to follow up with Mike Collins to pursue the RTAR with a goal of a January 2013 completion date.
    2. Quantifying daylighting impacts due to automated shading devices. The lead Thanos Tzempelilas will continue work on this with a January 2013

completion target. (Mudit Saxena – also suggested to Eleanor Lee from LBNL)

3. Characterizing Thermal and Optical Properties of PV film coated Glazing Systems (Lead Anil, Aziz, Brian) Aziz will pursue continuing to write an RTAR on this subject.
4. Willie du Pont and Chris Gueymard will pursue development of an improved SHGC calculation with better spectral data information as an RTAR. TC 6.7 –Solar Utilization may support this activity and developers will pursue their support. This will become an RTAR; persons working on the group will Charlie Curcija, Bipin Shah and Willie du Pont.

7. New Business

- a. none

8. Adjourned @ 4.15 pm.