



NFRC 2009 Fall Membership Meeting
November 16-19, 2009, San Antonio, TX

Minutes

Optical Properties Subcommittee

Tuesday, November 17, 2009

Under Research & Technology Committee Block: 7:30 a.m. – 12:30 p.m.

Chair: *Sneh Kumar, TRACO Inc.*

1. **Call to Order** ~ Chair Sneh Kumar called the meeting to order at 11:35 a.m.
2. **Recording Secretary** ~ John Lewis (NFRC staff) was appointed recording secretary.
3. **Minutes** ~ The minutes from July Baltimore, MD meeting were approved as presented.
4. **Agenda** ~ The agenda was reviewed and approved.
5. **Reports** ~
 - a. **NFRC 302 TG**: Chair Sneh Kumar provided a brief report on the activities of this TG; Ray McGowan also provided input, and encouraged interested parties to participate as the TG is considering significant revisions to NFRC 302.
 - b. **Non-planar Simulation TG**: Chair Charlie Curcija provided a brief report, and explained that he has prepared a research proposal summary but he needs to revise it and prepare research proposal without including the TDDs and other complex non-planar items. TDDs were debated, and it was decided that the TDDs would have a separate report. He would present the modified summary page at next meeting.
 - c. **Attachments Optical Properties TG**: Chair Tom Morrissey advised the formation of this TG was approved, with the scope to populate the Window 6 library for attachments. Met three times via telephone and once on Monday. The most immediate commonality is fabrics, so this will be initial focus (not wood, metal or plastics). Mike Rubin suggested that 100 fabric samples are to be submitted to LBNL; Rubin is in process of testing these fabrics. Another call is planned in about two weeks to review Rubin's progress, then to determine which existing standards can be mined to create a NFRC procedure. The goal is to be completed by next year.
 - d. **Optical Properties Priorities TG**: Ray McGowan reported (Chair Carlos McEntire not present) and gave a brief summary; 'shelf life' of IGDB data; diffuse glazing property measurement procedure are points of interest and investigation. Chair Sneh Kumar urged membership to get involved in this important work. Peter Lyons asked if the priorities included a determination of additional information that might be required to support W6 versus W5, bidirectional function, etc.
 - e. **ISO Activity** — Mike Rubin was not present. Ray McGowan briefly reported on the progress of ISO 160 Work Group. Willie duPont asked Ray McGowan to get the date of the next meeting & ballot, and to provide this information to the people in this group.
6. **New Business** ~
 - a. Mudit Saxena, of the Hescong Mahone Group, gave a presentation on an *Annual Radiance Daylighting Simulation Tool with BSDFs*. The tool was developed by Greg



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Ward, of Anywhere Software with funding support from Heschong Mahone Group and LBNL. Dynamic Radiance is related to rating systems for blinds (attachments). Discussion ensued; Ross McCluney stated the Illumination Engineers were working on a related project, but the program was flawed as it did not use BSDF. M. Saxena said this tool did in fact correct the flaws, and uses BSDF. R. McCluney stated “the importance of this work cannot be overstated”; this should be regarded as a tool to build a case to dissuade code bodies from moving to reduce window square area. Peter Lyons stated the USGBC is very interested in this type of work. Robin Mitchell stated Window 6 generates BSDF, and this can be used for input into other programs such as this dynamic radiance program.

Bipin Shah asked that this be put on the Optical properties agenda.

7. Adjournment ~ The meeting adjourned at 12:01 p.m.

DRAFT