

DRAFT

TC 4.5 Program Subcommittee Meeting Minutes

Sunday, June 26, 2011

4:00 – 5:00 p.m.

Cap-Chat Room
Fairmont Queen Elizabeth
Montreal, Quebec, Canada

Attendees [10]:

Michael Collins/University of Waterloo	Aziz Laouadi/NRC
Brian Crooks/Cardinal Glass Industries	Anil Parekh/NRCan
Charlie Curcija/LBNL	Dan State/Solatube
William duPont/Sunergy Consulting (Chair)	Athanassios Tzempelikos/Purdue University
Chris Geuymard/Solar Consulting Services	John Wright/University of Waterloo

I. Introductions. William duPont agreed to be meeting secretary.

II. Montreal Program, June 25 – 29, 2011 (Theme: Net-Zero Buildings)

Seminar 25: “Performance of Shading Devices in Commercial Buildings,” *Chair: D. Charlie Curcija/LBNL* {Monday, June 27, 2011, 8:00 – 9:30 a.m. Hilton Bonaventure, Outremont Room}

- 1) “Field Measurements of Energy Impact of Shading Devices,” *Christian Kohler/LBNL*
- 2) “State of the Art Thermal Modeling of Complex Fenestration Systems,” *Aziz Laouadi/NRC*
- 3) “A User Friendly Computer Program for the Solar/Thermal Analysis of Glazing Systems with Shading Devices,” *John Wright /University of Waterloo*
- 4) “Dynamic Shading in Commercial Buildings: Analysis and Case Studies,” *Athanassios Tzempelikos/Purdue University*

Poster Session 4: “Convective Heat Transfer in Hemispherical Cavities with Planar Inner Surfaces (1415-RP),” *Hamed H. Saber & Abdelaziz Laouadi/NRC* {Tuesday, June 28, 2011, 11:00 a.m. – 1:00 p.m. Hilton Bonaventure, Le Portage Room}

Deadlines: Program Proposals, Seminar & Forums were due on February 14, 2011;
Technical & Conference Papers, Seminar & Forums were due on March 14 2011;
All Presentations were due to ASHRAE on June 6, 2011.

III. Chicago Program, January 21 – 25, 2012 (Theme: The impact of HVAC&R on our daily lives)

Seminar: “Characterization of Tubular Daylighting Devices,” *Anil Parekh/NRCan*

- 1) “Visible Transmittance Measurements of Tubular Daylighting Devices,” *Charlie Curcija/LBNL*
- 2) “State of the Art Thermal Modeling of Tubular Daylighting Devices,” *Aziz Laouadi/NRC*
- 3) “A Tubular Daylighting Manufacturer’s Perspective,” *Dan Slate /Solartube*

Forum: “Rating Non-Residential Windows – What’s the Fuss?,” *Charlie Curcija/LBNL*

Deadlines: Conference Paper Abstracts & Full Technical Papers are due on April 18, 2011;
Complete Conference Papers are due on July 8, 2011;
Seminar & Forums Session Proposals are due on August 12, 2011.

IV. San Antonio Program, June 23-28, 2012

Transactions Session: “Predicting the Performance of Complex Fenestration Systems,” *Chair: Anil Parekh/NRCan*

- 1) “Convective Heat Transfer in Dome Skylight Cavities,” *Aziz Laouadi/NRC*
- 2) “Daylighting Performance of Controlled Shading Systems,” *Athanassios Tzempelikos/Purdue University*
- 3) “Using CFD Modeling to Predict the U-Factors of Tubular Daylighting Devices,” *Aziz Laouadi/NRC*

Transactions Session: “NFRC Research Projects,” *Chair: Christian Kohler/LBNL*

- 1) “Effect of Surface Heat Transfer Coefficients on U-Factors for Projecting Products,” *Charlie Curcija, A.F. Fomicher & M.S. Bhandari/Carli, Inc.*
- 2) “Three Dimensional Heat Transfer Effects in Fenestration Systems,” *Charlie Curcija, M. Stocki & M.S. Bhandari/Carli, Inc.*
- 3) “Window Awning Rating Feasibility Assessment,” *W. Ross McCluney/Sun Pine Consulting, William C. duPont/Sunergy Consulting & John Gant/Glen Raven Custom Fabrics*
- 4) “Determination of Thermal Transmittance of Tubular Daylighting Devices,” *Michael Thoman/Architectural Testing, Inc.*
- 5) “Determination of Garage Door and Rolling Door U-Factors,” *Michael Thoman/Architectural Testing, Inc. & Joseph Hetzel/DASMA*
- 6) “Dynamic Thermal Performance of a High Performance Door”, *Joseph Hetzel/DASMA*

Transactions Session: “Advances in Fenestration Performance Prediction,” *Chair: William duPont/Sunergy Consulting*

- 1) “Formation and Runoff of Condensate on a Vertical Window Surface,” *Vivek Kansal, and John Wright/Univ. of Waterloo*
- 2) “Condensation Potential of Windows,” *Hakim Elmahdy, Wahid Maref & Michael Lacasse/NRC*
- 3) “Spectral Selectivity in Fenestration Systems,” *W. Ross McCluney/Sun Pine Consulting*
- 4) “Angular Selectivity in Fenestration Systems,” *W. Ross McCluney/Sun Pine Consulting*
- 5) “Insect Screen Shade Model,” *W. Ross McCluney/Sun Pine Consulting*
- 6) “Net-Zero Energy House Design in India,” *Bipin Shah/WinBuild, Mahabir Bhandari/Carli, Inc. & Robin Sinha/Carlton University*

Transactions Session: “Applications and Conditions of Fenestration Systems,” *Chair: Ray McGowan/NFRC*

- 1) “Daylighting Performance of Controlled Shading Systems,” *Athanassios Tzempelikos/Purdue University.*
- 2) “Building Integrated Photovoltaic Façade Test Data,” *Andreas K. Athienitis/Concordia University.*

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V. Adjourn

Respectively Submitted: William C. duPont/Sunergy Consulting