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# TC 4.5 Program Subcommittee Meeting Minutes

Sunday, January 30, 2011  
4:00 – 5:00 p.m.

N213 Room  
Las Vegas Convention Center  
Las Vegas, Nevada

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**Attendees [11]:**

Michael Collins/University of Waterloo	Aziz Laouadi/NRC
Brian Crooks/Cardinal Glass Industries	Anil Parekh/NRCan
Charlie Curcija/LBNL	Bipin Shah/WinBuild
William duPont/Sunergy Consulting (Chair)	Athanassios Tzempelikos/Purdue University
Joseph Hetzel/DASMA	John Wright/University of Waterloo
Christian Kohler/LBNL	

I. Introductions and the Joe Hetzel agreed to be meeting secretary.

**II. Las Vegas Program, January 29 – February 2, 2011 (Theme: Zero Energy Design)**

**Seminar 53:** “Windows for Net-Zero Energy Homes,” *Chair: Brian P. Crooks/Cardinal Glass Industries* {Wednesday, 02/02/11, 9:45 – 10:45 a.m. Las Vegas Hilton, Pavilion 1 Room}

- 1) “Net-Zero Energy Windows: From Energy Losers to Energy Gainers,” *Christian Kohler/LBNL*
- 2) “Climate Impact in Window Design and Performance,” *Bipin Shah/WinBuild*

**Deadlines: Conference Papers, Seminar & Forums were due in August 6, 2010;**  
**All reviewed paperwork with TC Chair signature to ASHRAE: September 13, 2010.**  
**All Presentations were due to ASHRAE on January 11, 2011.**

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

**Seminar:** “Performance of Shading Devices in Commercial Buildings,” *Chair: D. Charlie Curcija/LBNL*

- 1) “Title Unknown,” *Athanassios Tzempelikos/Purdue University*
- 2) “Title Unknown,” *Christian Kohler/LBNL*
- 3) “Title Unknown,” *John Wright and Mike Collins/University of Waterloo*
- 4) “Porosity of Shading Devices,” *Aziz Laouadi/NRC*

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

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

**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*

**Chicago Program, January 21 – 25, 2012 (Continued)**

**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*

**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.*

**Deadlines: Program Proposals, Seminar & Forums are due in August 2011;**  
**Technical & Conference Papers, Seminar & Forums are due in September 2011;**  
**All Presentations are due to ASHRAE in January 2012.**

**V. San Antonio Program, June 23-28, 2012**

**Transactions Session:** “Predicting the Performance of Skylights and Tubular Daylighting Devices,” *Chair: Unknown*

- 1) “Using CFD Modeling to Predict the U-Factors of Tubular Daylighting Devices,” *Aziz Laouadi/NRC*

**Deadlines: Program Proposals, Seminar & Forums are due in February 2012;**  
**Technical & Conference Papers, Seminar & Forums are due in March 2012;**  
**All Presentations are due to ASHRAE in June 2012.**

**VI. Adjourn**

*Respectively Submitted: Joseph Hetzel/DASMA*