

TC 4.5 Program Subcommittee Meeting

Sunday, January 25, 2015

4:00 – 5:00 p.m., Burnham 5 room, Palmer House Hilton, Chicago IL

Chair: Thanos Tzempelikos/Purdue University

Attending (9):

William DuPont/Synergy consulting, Thanos Tzempelikos/Purdue, Charlie Curcija/LBNL, Roger LeBrun/Velux, Joe Hetzel/DASMA, Mike Collins/Waterloo, Ying-Chieh Chan/Purdue, Iason Konstantzos/Purdue, Jashif Navaz/JCI

Introductions

I. CHICAGO PROGRAM, JANUARY 24-28, 2015

Conference Paper Session 13: Energy associated with building envelopes.

Wednesday Jan 28, 11:00am-12:30pm, Crystal Room. Chair: Thanos Tzempelikos/Purdue

1. “Assessing Convective Heat Transfer Coefficients Associated with Indoor Shading Attachments using a New Numerical Technique”, *S.M. Foroushani, J.L. Wright, D. Naylor, M.R. Collins/Waterloo, Ryerson Univ.*
2. “Rethinking Energy Design Guidelines for Building Form Articulation”, *S. Nagpal, R. Manudhane, S. Bhawe/Atelier Ten, Transsolar*
3. “Daylight glare probability measurements in offices with dynamic facades”, *I. Konstantzos, A. Tzempelikos/Purdue University*

II. ATLANTA PROGRAM, JUNE 27-JULY 1, 2015

Deadlines:

Conference Papers due January 5, 2015;

Seminar & Forums Session Proposals due February 9, 2015;

Revised conference papers/final technical papers due February 13, 2015

All Presentations due June 5, 2015.

Conference paper submitted:

1. “Impact of Solar Optical Properties of Roller Shades on Energy, Daylighting and Comfort”, *Y-C. Chan, A. Tzempelikos & B. Protzman/Purdue University*

Seminar/Workshop: “Thermal performance of fenestration,” Chair: John Hogan/Consultant

1. “Determination of Garage Door and Rolling Door U-Factors,” *Michael Thoman/Architectural Testing, Inc. & Joseph Hetzel/DASMA*
2. “Dynamic Thermal Performance of a High Performance Door”, *Joseph Hetzel/DASMA*

1. **Seminar:** “Daylighting of commercial spaces with tubular daylighting devices” *Charlie Curcija/LBL*
2. “Visible Transmittance Measurements of Tubular Daylighting Devices,” *Charlie Curcija/LBNL*
3. “State of the Art Thermal Modeling of Tubular Daylighting Devices,” *Aziz Laouadi/NRC*
4. “A Tubular Daylighting Manufacturer’s Perspective,” *Neil Digert /Solartube*

III. ORLANDO PROGRAM, JAN 23-27, 2016

Conference paper abstracts due March 2015

Technical papers due April 2015

Seminars/forum proposals due August 2015

Transactions Session: “NFRC Research Projects,” *Chair: ?*

- “Window Awning Rating Feasibility Assessment,” *W. Ross McCluney/Sun Pine Consulting, William C. duPont/Sunergy Consulting & John Gant/Glen Raven Custom Fabrics*
- “Results from NFRC WINDOW6/THERM6 validation projects”, *William duPont*

Transactions Session: “Computer Simulation Methodologies to Predict the Performance of Blinds and Shading Systems,” *Chair: ?*

- 1) “Modeling the Performance of Honeycomb and Cellular Shading Systems,” *Charlie Curcija, Jacob Jonsson & Robert Hart/LBNL*
- 2) “Modeling the Performance of Pleated Shading Systems,” *Charlie Curcija, Jacob Jonsson & Robert Hart/LBNL*

Other papers planned:

“Validation of pleated shade model/Keyes chart modification”, *Michael Collins/Waterloo*

“An experimental study and model of a window with STPV”, *A. Athienitis, K. Kapsis/Concordia*

IV. 2015 ASHRAE ENERGY MODELING CONFERENCE

September 30-October 2, Atlanta

Abstracts due: March 2, 2015

Notification of abstract decisions: March 16, 2015

Accepted speaker forms due: March 30, 2015

Presentations due: Sept. 8, 2015

Submitted abstracts:

1. “Optimal design and control of multi-sectional dynamic facades for office perimeter zones”, *Chan and Tzempelikos/Purdue University*
2. “An integrated thermal and lighting simulation tool for perimeter zones with dynamic façade systems”, *Shen and Tzempelikos/Purdue University*

LBNL?

V. Adjourn

Prepared by: Thanos Tzempelikos, Jan. 25, 2015