

# TC 4.5 Research Subcommittee Meeting Minutes

Sunday, June 26, 2011

3:15 – 4:00 p.m.

Fairmont Queen Elizabeth  
Montreal, Quebec Canada

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## *Attendees [8]:*

Anil Parekh / Natural Resources Canada (Chair)	Aziz Laouadi / NRC Canada
Brian Crooks / Cardinal Glass Industries	Charlie Curcija / LBNL
William duPont / Sunergy Consulting	Thanos Tzempelikos / Purdue
Michael Collins / U of Waterloo	John Wright / U of Waterloo
Dan State / Solatube	Chris Gueymard / SCS
Agami Reddy (RL4) / ASU	

- I. Meeting started at 3:15 p.m. Agenda was distributed, and everyone introduced themselves.
- II. Draft minutes of the Las Vegas minutes were approved. (John / Willie)

## **IV. Research Projects**

1415 – Thermal and Optical Analysis of Tubular Daylighting Devices – Aziz Laouadi of NRC Canada will do an update at the PMS on Monday. Briefly reported that progress till now is good.

## **V. Research Topic Acceptance Request Forms (RTAR)**

1414-RTAR (A04) “Update of U-Factors, Solar Heat Gain Coefficients and Visible Transmittance of Standard Fenestration Units Made from Representative Fenestration Frame and Glazing Systems in the Fenestration Chapter of the Handbook of Fundamentals” – (Primary Authors: Jon McHugh, Tom Culp, William duPont and Ray McGowan, and later revised by Bipin Shah and Charlie Curcija)

There is confusion this with regard to the status of this work statement. During the Las Vegas meeting, Bipin, Charlie and Willie incorporated RAC comments and completed the work statement. Covering letter was also prepared. RL-4 (Agami Reddy) reported that RAC did not receive this. Contacted Charlie, Bipin and Willie to find the status and with a request to re-send this to RL4 by June 28<sup>th</sup>. Agami will take this to RAC.

PES is Mike Collins, Ray McGowan and Brian Crooks.

Ray will provide the bidders’ list to Charlie to complete the covering letter.

## **VII. New Research Ideas**

The following research projects (ideas) were provided:

- Develop Convective Heat Transfer Coefficient for Indoor and Outdoor Shading Devices (Lead John Wright, Charlie and Thanos)  
Context: lack of calculation procedures for determining real heat transfer convective coefficients for shading devices; differences in non-fixed and fixed shading devices; focus

on common products (venetian blinds and roller shutters); lab tests and calculation procedures

- Quantifying daylighting impacts due to automated shading devices  
(Lead Thanos, Mudit Saxena – also suggested to Eleanor Lee from LBNL)
- Characterizing Thermal and Optical Properties of PV film coated Glazing Systems  
(Lead Anil, Aziz, Brian)  
Context: glass products with PV coating are coming in the market with emphasize on PV performance; lack of thermal and optical properties of such glass products; lab test procedures for determining thermal and solar properties with PV film charged and non-charged; major innovation for homes and buildings for electricity generation for near and net-zero buildings

It was suggested to keep this list updated on a regular basis.

#### **VIII. Research Liaison reports**

Agami Reddy of ASU will be completing RL4. His message was for more RTARs and Work Statements.

#### **IX. Adjourn**

Meeting adjourned at 4:15 p.m.

*Respectively Submitted: Anil Parekh / NRCan*