## TC 2.01 Physiology & Human Environment – New York Meeting Minutes

# Meeting Schedule

## Meeting Day Time Room

TC 2.01 Physiology& Human Environment    Tues 1:00‑4:30P Beekman (H2)

TC 2.01 Research Sunday 1:00-3:00P Exec Boardr’m (Sh)

TC 2.01 Programs Sunday      3:00-4:00P  Exec Boardr’m (Sh)

TC 2.01 Handbook Sunday      4:00-5:00P   Exec Boardr’m (Sh)

# Main Committee Minutes

**1. Call to Order**– Dennis Loveday. The meeting was called to order at 1:10 by Dennis Loveday

**2. Read Scope**: TC 2.01 is concerned with the relationship of man’s living environment, as altered by air conditioning, heating, and ventilation systems to his comfort, health and productivity.

1. **Introduction of Members, Guests, and Liaisons**: Guests were warmly welcomed, and were strongly encouraged to submit contact information to chair or vice-chair to be added as provisional corresponding members CM.

Introductions were made. 13 members and guests were introduced.

1. **Denver Minutes Approval:** Motion to approve minutes by Eric Adams. Lilly Wang seconded. Denver meeting minutes approved. 7-0-0 CV

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| --- | --- | --- | --- |
| **MEMBERS** | **Term Ends** | **Rolling Off after**  **New York Meeting** | **Quorum check** |
| Eric Adams | 6/30/2017 |  | x |
| Joon-Ho Choi | 6/30/2016 |  |  |
| Raymond H Horstman | 6/30/2016 |  |  |
| Mark C Jackson | 6/30/2016 |  |  |
| Dennis L Loveday | 6/30/2016 |  | x |
| Arsen K Melikov (VMNQ) | 6/30/2016 |  |  |
| Chandra Sekhar | 6/30/2014 |  |  |
| Peter Simmonds | 6/30/2015 |  |  |
| Zuraimi Sultan | 6/30/2017 |  | x |
| Shin-ichi Tanabe (VMNQ) | 6/30/2015 |  | x |
| Diotima A Von Kempski | 6/30/2017 |  | x |
| Lily Wang | 6/30/2017 |  | x |
| Hui Zhang | 6/30/2017 |  | x |

# Liaison Reports –

* **TAC Chairman**– Mr William F McQuade
* **TAC Section Head** – Mr J Thomas Sobieski
* **Chapter Technology Transfer Liaison –** Mr. Jean-Gabriel Joannette
* **Program Liaison** – NOT LISTED
* **RAC Research Liaison** – Mr David A John
* **ALI / PDC Liaison** – Mr Donald L Brandt
* **Special Pubs Liaison** – Mr Francis A Mills
* **Handbook Liaison** – Ms Jill A Connell
* **Standards Liaison** – Ms Cecily M Grzywacz
* **Staff Liaison** – Mr. Michael Vaughn
* **Std 55 Liaison** – Gwelen Paliaga
* **9.6 (Healthcare)&TC 9.7(Educational Facilities)Liaison**– Ron Westbrook
* **TC 2.6 (Sound & Vibration)Liaison**– Kenneth Roy

# Chair’s Report – Dennis Loveday

* The 2013-2014 Hightower Award recipient is GD Mathur, TC5.5 & TC 5.7
* A new award is available, called the ‘Outstanding TC Award’. This award is to recognize, annually, a single Technical Committee within each TAC Section that has the highest measured performance based on a set of weighted criteria as compared to other TCs within that same section.
* Sunday Young Engineers in ASHRAE (YEA) meeting. Eric Adams and Dennis Loveday attended the meeting. Eric Adams reported about the meeting.
* 2014-2015 roster update process.
* Request to TC to review ASHRAE ethical code.
* Developing of MTG “multidisciplinary technical group” (i.e. hot climate design development).
* The TC master calendar is now available through Google.
* TC member are encourage to volunteer for reviewing technical papers for ASHRAE conferences.
* ASHRAE winter meeting 2015 will be held in Chicago from 26th to 28th of January.
* March 24th 2014 is the deadline to submit abstracts for Chicago conference.
* Update on upcoming conferences
* List of upcoming Conferences of interest (https://ashrae.org/membership--conferences/conferences):
* ASHRAE Annual Conference, Seattle, WA (June 28-July 2, 2014)
* IAQ 2013 (October 15-18, 2013)
* Hot Climates Conference, Doha, Qatar (February 24-26, 2014)
* 4th Annual CIBSE ASHRAE Technical Symposium, Dublin, Ireland (April 3-4, 2014)
* ASHRAE High Performance Buildings Conference, San Francisco, CA(April 7-8, 2014).
* ASHRAE—IBPSA Building Simulation Conference, Atlanta, GA (September 10-12, 2014)
* ASHRAE Annual Conferences, Chicago, IL (January 26-28, 2015)

# Subcommittee Reports

## 7.1 Programs – Zuraimi Sultan

# Co-sponsor request:

* Received a proposal from Angela Simone, DTU, for Seattle Meeting (Unsuccessful submission for New York City)

Title: Passive Cooling with Increased Night Ventilation in Low Energy Buildings

Sub-commitee vote to sponsor this seminar, recommend to main commitee for vote. Main committee voted to co-sponsor this seminar. Motion to co-sponsor by Zuraimi Sultan. Dennis Loveday seconded. Approved 7-0-0.

Action: Zuraimi will inform Angela Simone about the decision, and will remind her of the Feb 13th 2014 deadline.

* Received a proposal for TC2.1 co-sponsorship of a Lawrence Berkeley Lab program for the Seattle Meeting (Proposal received after Program’s sub-committee Sunday meeting.)

Title: Occupant Behaviour.

There was not sufficient time for TC2.1 members to review and discuss.

# New York City Program/Seminar:

* Expanding ASHRAE Local clothing ensemble

Dennis Loveday’s proposal for an ASHRAE seminar in New York 2014 was unsuccessful. The seminar was held instead within the TC2.1 committee meeting.

Chair: Dennis Loveday

Speakers: George Havenith/Simon Hodder: U Loughborough

Shin-ichi Tanabe: Waseda University.

1. **Future Programs**

* Summer overcooling part 2: how to avoid summer overcooling.

Chair: Hui Zhang

Speakers: Jiang Yi

Ed Arens / Gwellen Paliaga

Chandra Sekhar

Hui Zhang will confirm whether to proceed with the seminar or otherwise.

**Atlanta, GA 2015**

* Thermal comfort control for individual setting(human-building integration)

Chair: Joon-hoo Choi

Speakers: TBD.

* “Kitchen study”

John Stoops proposal – dropped –picked up by Angela Simone.

Action: Zuraimi to ask Angela Simone to prepare proposal.

1. **Potential Programs Ideas**

* “Different thermal comfort models”

Chair: Pratik (Transsolar)

Speakers: Pratik

Ed Arens/Hui Zhang

John Elson.

* “Perception of thermal comfort associated with building energy consumption”

Chair: Diotima Von Kempski

Speakers: Diotima Von Kempski

TBD University of California

TBD Johns Hopkins University.

* 1. **Research** – Hui Zhang

1. **RTAR: Research Topic Approval/Acceptance Request**

* URP - 1726 (proposal evaluation committee)

Title: Global mapping of current and future climate conditions, workplace heat exposures, and estimated need for workplace cooling system.

Comments: 3 very different parts; scope of this work is global.

Chair proposed to find a TC PES but no one volunteered.

Chandra Sekhar accepted to review the proposal

* URP - 1656: Development of ASHRAE Database II. Now submitted for RAC approval.

1. **Finished research projects**

* RP - 1515: minimum flow rate for thermal comfort and energy efficiency
* RP - 1504: Thermal insulation of non-western clothing

If approved by the committee then it will be sent to 2.1. for final approval.

1. **Road map**

* Behavior and energy.
* Role of climate change: long term comfort.
* Clothing integrated sensors.
* Shot waves impact on thermal comfort.
* Eye-discomfort and indoor environment.
* Sleeping environment.
  1. **Honors and Awards –** Dennis Loveday
* Ralph Nevins award. Motion to recommend Yang Bin by Eric Adams. Arsen Melikov seconded. TC2.1 recommended Yang Bin for the Ralph Nevis award 6-0-1.
  1. **Handbook** – Eric Adams

Diotima Von Kempski has to contact Bill Cain to see the status of Chapter 12.

**7.5 Membership** – Lily Wang

## Current Roster for 2013-2014

11 Voting Members – 7 vacant seats

2 Voting Member Non-Quorum – zero vacant seats

(8 academic, 2 building industry, 2 manufacturing, 1 government)

65 Corresponding Members

Chair – Dennis Loveday

Vice-Chair – Joon-Ho Choi

Secretary – Wilmer Pasut

* Upcoming Rollover Roster for 2014-2015 (Effective July 1, 2014)

The following 1 voting member will roll off and become corresponding members after the Seattle meeting: Chandra Sekhar, National University of Singapore

The following 4 corresponding members requested to be upgraded to voting members:

Jim Bushnell, HVAC Consulting Services

Jaap Hogeling, ISSO

Baizhan Li, Chongqing University

Yao Runming, University of Reading

The last two of the previous list can attend only one meeting a year. The TC decided to do not admit Baizhan Li and Yao Runming as voting members. Jim Bushnell and Jaap Hogeling have been admitted as voting members.

There is 1 new corresponding member:

Rehan Yousaf, Loughborough University

## Rollover Roster for 2014-2015

14 Voting Members – 4 vacant seats

2 Voting Member Non-Quorum – zero vacant seats

(10 academic, 3 building industry, 2 manufacturing, 1 government)

63 Corresponding Members

Chair – Dennis Loveday

Vice-Chair – Joon-Ho Choi

Secretary – Wilmer Pasut

# 7.6 Webmaster – Ron Westbrook

* Ron Westbrook wants to roll off. The chair invited volunteers for the webmaster position.

# Old Business

* Widening the scope of TC2.1. A group composed by Lily Wang, Dennis Loveday and Kenneth Roy will discuss about this topic in order to have some ideas for the ASHRAE summer meeting 2014.

**9. New Business**

* Vote to approve final report on RP 1515. Motion to approve RP1515 by Dennis Loveday. Shin-ichi Tanabe seconded. Final report on RP1515 approved. 5-0-1 CV.
* Vote to approve final report on RP 1504. Motion to approve RP1504 by Eric Adams. Zuraimi Sultan seconded. Final report on RP1504 approved. 7-0-0 CV
* The chair reported on the sub-comet evaluation results for the RP1624. Among the five bids two were ahead and very close in terms of score. The bid from DTU won on a dollar-per-point base. Motion to support DTU bid by Dennis Loveday. Eric Adams seconded. DTU got the best bid 6-0-1.
* Unsolicited URP 1726 “Global Mapping of Current and Future Climate Conditions, Workplace Heat Exposures, and Estimated need for Workplace Cooling Systems”. In the morning a sub-comet met and raise some concerns:
  + The topic is not appropriate for TC 2.1.
  + The only link with TC2.1 is productivity, which has been considered a weak link.

Motion to adjourn by Eric Adams. Seconded by Hui Zhang. 6-0-0