

2023 SPRING MEETING MINUTES

RESEARCH ADMINISTRATION COMMITTEE

Spring Teleconferences

APRIL 5th & 6th, 2023

Note: These draft minutes have not been approved and are not the official record until approved by the Research Administration Committee.

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PRINCIPAL MOTIONS RESEARCH ADMINISTRATION COMMITTEE APRIL 5th & 6th, 2023

NO.	PAGE	MOTION				
NO.	PAGE	MOTION				
1	1	the draft minutes of the RAC 2023 winter meeting be approved as drafted.				
2	3	the following seven projects be released for bid in the spring: 1566-TRP-R, 1716-TRP-R, 1790-TRP-R, 1869-TRP, 1873-TRP, 1910-TRP and 1919-TRP.				
3	3	that the following 20 students each be awarded an ASHRAE Graduate Student Grant-in-Aid grant for the 2023-2024 academic year.				
4		1931-RTAR Determination of the Metabolic Rates and CO2 and Aerosol Generation of Occupants in Offices, Medical Settings, and Commercial Kitchens – TC (2.1 Physiology & Human Environment), be accepted				
5		1950-RTAR, Effect of Residential Exhaust Terminations on Jet Mechanics and Resulting Required Intake Separation – TC (4.3 Ventilation and Infiltration), be accepted w/comments.				
6		1951-RTAR, Development of Material Moisture Tolerance Criteria and Evaluation Methodology for ASHRAE Standard 160 to Control Structural Property Degradation of Common Sheathing Materials - TC (4.4 Building Materials and Building Envelope Performance), be returned.				
7		1953-RTAR, Evaluation of Ground Source Heat Pumps (GSHP) with Thermal Energy Storage (TES) for Residential and Commercial Buildings - TC (6.8 Geothermal Heat Pump and Energy Recovery Applications), be accepted w/comments				
8		1954-RTAR, Flammability Testing and Calibration of 200L to 12L Flammability Limits for Borderline Cases - TC (3.1 Refrigerants and Secondary Coolants), be accepted w/comments				
9		1955-RTAR, Healthcare Anteroom Ventilation – TC (9.6 Health Care Facilities), be accepted w/comments.				
10		1956-RTAR, Compact CFD Modeling Guidance for Flow Resistances - TC (4.10 Indoor Environmental Modeling), be accepted w/comments.				
11		1851-WS, Dielectric Properties of Lower GWP Refrigerants – TC 3.1 (Refrigerants and Secondary Coolants), be returned.				
12		1926-WS, Update of U-factors, Solar Heat Gain Coefficients and Visible Transmittances of Standard Fenestration Units made from Representative Fenestration Frame and Glazing Systems in the Fenestration Chapter of Handbook of Fundamentals - TC (4.5 – Fenestration), be conditionally accepted.				
13		1929-WS, Evaluation of Building Life Cycle Analysis Tools Incorporating embodied Carbon - TC (2.8 Building Environmental Impacts and Sustainability), be conditionally accepted.				



MINUTES

RESEARCH ADMINISTRATION COMMITTEE APRIL 5th & 6th, 2023

MEMBERS PRESENT:

GUESTS: None

Omar Abdelaziz, *Chair* William Murphy, Vice *Chair*

Natascha Milesi Ferretti. Chair RAS

Jin Wen, Chair RPS (April 6th only)

Ahmed Kashef, RL Section 1.0

William Hutzel, RL Section 2.0

Chee Sheng Ow, RL Section 3.0 (April 6th only)

Dennis Landsberg, RL Section 4.0 Douglas Scott, *RL Section 5.0* Stefan Elbel, *RL Section 6.0*

James Bogart, Section 7.0

Carl Huber, RL Section 8.0

Roland Charneux, *RL Section 9.0* Lorenzo Cremaschi, *RL Section 10.0*

Xudong Wang, Consultant

ASHRAE STAFF:

Michael Vaughn, MORTS Donna Daniel, COORD

MEMBERS ABSENT:

A. CALL TO ORDER & INTRODUCTIONS

B. ASHRAE CODE OF ETHICS

https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics

C. ADDITIONS AND/OR CHANGES TO THE AGENDA

D. APPROVAL OF WINTER '23 MINUTES

It was moved and seconded that,

(1) the draft minutes of the RAC 2022 winter meeting be approved as drafted.

MOTION #1 PASSED: 11-0-0-1 (12) CNV

E. CHAIR'S REPORT

a) Disposition of Motions from Last Meeting or Letter Ballots

1. The four projects bid in Fall 2022(1843, 1857, 1884, and 1890) with project funding motions were approved by RAC/TechC in Atlanta, Georgia.

- b) New & On-going Action Items Assigned by Tech. Council
 - 1. Completed RAC Budget Forecast form for TechC -
- c) New Information Items: TBD

 1. Plans for ASHRAE Annual Meeting in Tampa
 - 2. PMS or PES Training Webinars Need to set date for Webinars in spring and fall
- d) MBO Status Report Review with action items

BOD EX-OFFICIO & COORD. OFFICER

none

G. **ACTION ITEMS**

Research Administration Committee (RAC) Winter 2023

Action #	Responsibility	Summary of Action	Status
1	Cremaschi	Write-up a plan to expand the research budget.	On-going
2	Murphy	Write-up a procedure on the "Conflict of Interest, for New Investigator, Homer Adams Award, and Innovative Research Grants to be added to the reference manual.	On-going
3	Staff	Send out a doodle poll for pre-spring meeting.	Complete
4	Staff	Change Research Breakfast time to 7:00 AM instead of 6:30 AM for the Tampa meeting	Complete
5	Staff	Change the RAC Saturday meeting time to 8:00 AM through 3:00 PM.	Complete
6	Bogart, Landsberg, Cremaschi	Recommendations to address the list server and bidders list. Who receives the announcements?	On-going

Н. TRPs to BID or REBID in spring 2023

It is moved and seconded that,

that the following seven projects be released for bid in the spring: 1566-TRP, 1716-(2) TRP, 1790-TRP, 1869-TRP, 1873-TRP, 1910-TRP AND 1919-TRP.

MOTION #2 PASSED RAC: 11-0-0-1 (12) CNV

RECESSED

RECONVENED April 16TH 2023

ASHRAE GRADUATE STUDENT GRANT-IN-AID AWARD

A total of 43 applications were considered for the 2023-2024 ASHRAE Graduate Student Grant in-Aid program. Each grant recipient receives up to \$10,000 with the option to earn

an additional \$1,500 honorarium if they present a paper on their GIA research at an ASHRAE Society meeting.

It was moved and seconded that,

- that the following 20 students each be awarded an ASHRAE Graduate Student Grant-in-Aid grant for the 2023-2024 academic year.
 - 1. Ahn Jounghwan Texas A&M University
 - 2. Justin Berquist University of Toronto- #1 LMC
 - 3. Erin Blackley Colorado State University
 - 4. Yidan Cui Purdue University
 - 5. Hashani De Silva University of Cincinnati
 - 6. Amirhossein Eisapour Toronto Metropolitan University
 - 7. William Hobson Carleton University
 - 8. Jinglin Jiang Purdue University
 - 9. Guowen Li Texas A&M University
 - 10. Jiacheng Ma Purdue University
 - 11. Andre Markus Carleton University
 - 12. Seongjun Park Pennsylvania State University
 - 13. Satya Sundar Patra Purdue University
 - 14. Elias Pergantis Purdue University
 - 15. Mostafa Saad Concordia University
 - 16. Saba Shahvari Ohio State University- #2 LMC
 - 17. Brett Stinson Portland State University
 - 18. Casey Troxler Embry-Riddle Aeronautical University
 - 19. Shenbo Zhang University of Toronto
 - 20. Xi Zhao Texas A&M University

Justin Berquist of University of Toronto and Saba Shahvari of Ohio State University hold the added distinction of being named the 2023-2024 Life Member Club grant recipients as the top one and two rated applicants, respectively. These two grants are supported by a financial contribution from the club.

MOTION #3 PASSED: 11-0-0-1 (12) CNV

I. RTAR Review (7 new or revised RTARs)

It was moved and seconded that.

(4) 1931-RTAR Determination of the Metabolic Rates and CO2 and Aerosol Generation of Occupants in Offices, Medical Settings, and Commercial Kitchens – TC (2.1 Physiology & Human Environment), be accepted.

MOTION #4 PASSED: 11-0-0-1 (12) CNV

It was moved and seconded that,

(5) <u>1950-RTAR</u>, Effect of Residential Exhaust Terminations on Jet Mechanics and Resulting Required Intake Separation – TC (4.3 Ventilation and Infiltration), be accepted w/comments.

MOTION #5 PASSED: 11-0-0-1 (12) CNV

It was moved and seconded that,

(6) 1951-RTAR, Development of Material Moisture Tolerance Criteria and Evaluation Methodology for ASHRAE Standard 160 to Control Structural Property Degradation of Common Sheathing Materials - TC (4.4 Building Materials and Building Envelope Performance), be returned.

MOTION #6 PASSED RPS: 4-0-0-1 (5) CNV

It was moved and seconded that,

(7) <u>1953-RTAR</u>, Evaluation of Ground Source Heat Pumps (GSHP) with Thermal Energy Storage (TES) for Residential and Commercial Buildings - TC (6.8 Geothermal Heat Pump and Energy Recovery Applications), be <u>accepted</u> w/comments.

MOTION #7 PASSED: 7-0-1-1 (8) CNV

It was moved and seconded that,

(8) <u>1954-RTAR</u>, Flammability Testing and Calibration of 200L to 12L Flammability Limits for Borderline Cases - TC (3.1 Refrigerants and Secondary Coolants), be accepted w/comments.

MOTION #8 PASSED: 7-0-1-1 (8) CNV

It was moved and seconded that,

(9) <u>1955-RTAR</u>, *Healthcare Anteroom Ventilation* – TC (9.6 Health Care Facilities), be accepted w/comments.

MOTION #9 PASSED: 8-0-0-1 (9) CNV

It was moved and seconded that,

(10) <u>1956-RTAR</u>, Compact CFD Modeling Guidance for Flow Resistances - TC (4.10 Indoor Environmental Modeling), be <u>accepted w/comments</u>.

MOTION #10 PASSED: 7-1-0-1 (9) CNV

K. WORK STATEMENT REVIEW (3 new & revised WSs)

It was moved and seconded that,

(11) <u>1851-WS</u>, Dielectric Properties of Lower GWP Refrigerants – TC 3.1 (Refrigerants and Secondary Coolants), be returned.

MOTION #11 PASSED RAS: 4-0-0-1 (5) CNV

It was moved and seconded that,

(12) <u>1926-WS</u>, Update of U-factors, Solar Heat Gain Coefficients and Visible Transmittances of Standard Fenestration Units made from Representative Fenestration Frame and Glazing Systems in the Fenestration Chapter of Handbook of Fundamentals - TC (4.5 – Fenestration), be conditionally accepted.

MOTION #12 PASSED: 11-0-0-0 (12) CNV

It was moved and seconded that,

(13) <u>1929-WS</u>, Evaluation of Building Life Cycle Analysis Tools Incorporating embodied Carbon - TC (2.8 Building Environmental Impacts and Sustainability), be

conditionally accepted.

MOTION #13 PASSED: 11-0-0-0 (12) CNV

CARRY-OVER TRPs/URPs, FUNDED EXTENSIONS & GRANT REQUESTS

Μ.

- a) AHRI Xudong Wang None CIBSE Hywel Davies None

UNFINISHED OR OUT-OF-SEQUENCE BUSINESS

NEW BUSINESS

<u>ADJOURNED</u>

The meeting of the Research Administration Committee adjourned at 12:10 PM.

RECURRING ACTION ITEMS (EACH MEETING)

Responsibility Summary of Action

Chair Report to Technology Council on RAC's MBO Status.

Research Liaisons Remind all TC chairs and research subcommittee chairs in section

that a draft of all Work Statement and RTARs, and all later versions should be sent to their Research Liaison for review before information

is passed on to the Manager of Research.

RPS (Primary) RAS (Secondary) Review RTARs

RAS (Primary) RPS (Secondary) **Review Work Statements**

RAS (Primary) RPS (Secondary) Review TRPs and URPs

RPS (Primary) upon (Secondary)

Review and revise the Society's Research Implementation Plan based

accepted RTARs.

Subcommittee Chairs Report Status of assigned MBOs.

Staff Distribute copies of Technology Council's Action Items and Motions

affecting RAC.

BOD ExO Report to the RAC Chair BOD's Actions and Motions affecting RAC.

Staff Forward URPs to RAS Chair to help identify a champion for the URP

on RAC based on members background and experience. The RAC URP Champion will either help select a cognizant TC to review the URP or return the URP with a recommendation that it not be reviewed

further as a possible ASHRAE research project.

RECURRING ACTION ITEMS (WINTER MEETING)

Responsibility Summary of Action

RAS Plan TC Research Subcommittee chair Training Workshop for Winter

Meeting

RPS Review Grant-In-Aid Applications

RPS Review New Investigator Award Nominations

RPS Review Homer Addams Award Nominations

Chair Present Service to ASHRAE Research Award to this year's recipient

RAC Decide if spring meeting is needed and set date for spring meeting.

MORTS Prepare semi-annual report to RAC by December 15.

RECURRING ACTION ITEMS (SPRING MEETING)

Responsibility Summary of Action

RPS Review Grant-In-Aid Applications

RECURRING ACTION ITEMS
(FALL MEETING)

Responsibility Summary of Action

RLs Review "Service to ASHRAE Research Award" nominations submitted

by TC chairs and select the best nomination for RAC consideration.

RECURRING ACTION ITEMS (ANNUAL MEETING)

Responsibility Summary of Action

RPS Plan training workshop for new RAC members at the Annual meeting

Research Liaisons

Award

Request nominations from TCs for Service to ASHRAE Research

Chair Invite new members of RAC to the workshop for new RAC members

scheduled for the Annual meeting.

MORTS Prepare semi-annual report to RAC by May 15.