



Shaping Tomorrow's
Built Environment Today

MINUTES

RESEARCH ADMINISTRATION COMMITTEE MEETING

JUNE 25TH & JUNE 29TH, 2022

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JUNE 25TH & JUNE 29TH, 2022

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**PRINCIPAL MOTIONS
RESEARCH ADMINISTRATION COMMITTEE
JUNE 25TH & JUNE 29TH, 2022**

NO.	PAGE	MOTION
1	3	Minutes for the RAC 2022 spring meetings be approved as drafted.
2	3	<u>1942-RTAR</u> , <i>Evaluation of the Usability of ASHRAE Standard 207</i> , sponsored by TC 7.5 (Physiology and Human Environment), be <u>accepted with comments</u>
3	4	<u>1943-RTAR</u> , <i>Energy benefits of DOAS systems with demand control and full dehumidification</i> , sponsored by TC 8.10, (Mechanical and Desiccant dehumidification, Het Pipes and components), be <u>returned</u> .
4	4	<u>1928-WS</u> , <i>Improving biological efficacy test methods to measure in-room air cleaner performance against airborne pathogens</i> , sponsored by TC 2.9 (Ultraviolet Air & Surface Treatment), be <u>returned</u> .
5	4	<u>1939-WS</u> , <i>A decision and evaluation framework to validate weather time series and statistics for use in building performance analysis and design</i> , sponsored by TC 4.2 (Energy Calculations), be <u>rejected</u>
6	4	<u>1789-TRP</u> , <i>“Optical and thermal performance of hollow glass block units”</i> be awarded to University of North Texas for a period of 26 months at a total cost to ASHRAE of \$172,835.
7	5	<u>1815-TRP</u> , <i>“Integrating Occupant Behavior Data into Building Information Modeling for Performance Simulation”</i> be awarded to Carmel Software Corporation for a period of 24 months at a total cost to ASHRAE of 177,000.
8	5	<u>1835-TRP</u> , <i>Characterizing the Performance of Induced Flow Stacks”</i> be awarded to Ohio State University for a period of 24 months at a total cost to ASHRAE of \$249,547.
9	5	<u>1854-TRP</u> , <i>“Database of Ultraviolet Inactivation Rate Constants (k-values) for Microorganisms Critical to System Design”</i> be awarded to Icahn School of Medical at Sinai for a period of 7 months at a total cost to ASHRAE of \$75,00.

**Carried-over Action Items from Annual Meeting 2021
Research Administration Committee (RAC)**

Action #	Responsibility	Summary of Action	Status
2	Staff	Continue to collect project cost data for the new research project estimating guide.	On-going
7	MORTS	Recommend the SY22-23 Service to ASHRAE Research Award at the Annual meeting instead of Winter meeting because award recommendation needs to be endorsed by Honors and Awards and Members Council at winter meeting first.	On-going

**Action Items
Research Administration Committee (RAC)
Las Vegas Winter 2022 Meeting**

Action #	Responsibility	Summary of Action	Status
1	All RLs	Update the last 2 years of historical results for their sections. Staff should distribute the Winter 2022 RL reminder Report immediately to all RLs. Reminder reports should be put in Basecamp ASHRAE RL "X" x=your section # Location ASHRAE RL "X" /Docs & Files ?Ref Info /RL "X" Status / RL "X" reminders 2022 Winter Meeting rev#.xls. RLs should send an email to Donna and Mike V after RL reminder reports have been updated and posted to Basecamp. See RAC ExCOM or RAC Chair for help.	On-going
2	All RLs	Ensure all RLs update the Basecamp RL "x" sites with their TC rosters, RP folders, updated summary pages and remove old information. Move completed projects to completed folders. See RAC ExCom or RAC Chair for help.	On-going

**RECURRING ACTION ITEMS
(EACH MEETING)**

<u>Responsibility</u>	<u>Summary of Action</u>
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) RPS (Secondary)	Review and revise the Society's Research Implementation Plan based upon 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
(FALL MEETING)

<u>Responsibility</u>	<u>Summary of Action</u>
RAS	Initial Plan for Research Breakfast Workshop for Winter Meeting
RLs	Review "Service to ASHRAE Research Award" nominations submitted by TC chairs and select the best nomination for RAC consideration.
MORTS	Prepare semi-annual report to RAC by December 15.

RECURRING ACTION ITEMS
(WINTER MEETING)

<u>Responsibility</u>	<u>Summary of Action</u>
RPS	Review New Investigator Award Nominations
RPS	Review Homer Addams Award Nominations
RPS	Review Innovative Research Grant (IRG) Pre-Proposals
MORTS	Prepare semi-annual report to RAC by May 15.

RECURRING ACTION ITEMS
(SPRING MEETING)

<u>Responsibility</u>	<u>Summary of Action</u>
RPS	Plan workshop for new RAC members at the Annual meeting.
RPS	Review Grant-In-Aid Applications

RECURRING ACTION ITEMS
(ANNUAL MEETING)

<u>Responsibility</u>	<u>Summary of Action</u>
Chair meeting.	Invite new RAC members to meetings and any training sessions at meeting.
Incoming Chair	Finalize MBOs and roster assignments. Set date for fall meeting.
RAS	Review Invited Innovative Research Grant (IRG) Full-Proposals

LIST OF ATTACHMENTS

ATTACHMENT 1: 1789-TRP
ATTACHMENT 2: 1815-TRP
ATTACHMENT 3: 1835-TRP
ATTACHMENT 4: 1854-TRP



Shaping Tomorrow's
Built Environment Today

MINUTES

RESEARCH ADMINISTRATION COMMITTEE JUNE 25TH & JUNE 29TH, 2022

MEMBERS PRESENT:

Michael Pouchak, *Chair*
Omar Abdelaziz, *Vice-chair*
William Murphy, *Chair RAS*
Paolo Tronville, *Chair RPS*
Ahmed Kashef, *RL Section 1.0*
William Hutzel, *RL Section 2.0*
Jin Wen, *RL Section 5.0*
Christopher Seeton, *RL Section 8.0*
Roland Charneux, *RL Section 9.0*
Xudong Wang, *Consultant AHRTI*
Hywel Davies, *Consultant CIBSE*
Tyler Glesne, *BOD Ex-Officio*
Tim McGinn, *Coordinating Officer*

GUESTS:

ASHRAE STAFF:

Michael Vaughn, *SMORTS*
Donna Daniel, *COORD*

VIRTUAL MEMBERS:

Chee Sheng Ow, *RL Section 3.0*
Natascha Milesi Ferretti, *RL Section 4.0*
Stefan Elbel, *RL Section 6.0*
James Bogart, *RL Section 7.0*
Lorenzo Cremaschi, *RL Section 10.0*

A. CALL TO ORDER & INTRODUCTIONS & ASHRAE CODE OF ETHICS

Chair Pouchak called the meeting of the committee to order on Saturday, June 25, 2022, at 8:00 a.m. and recessed at 11:40 a.m. The meeting was reconvened on Wednesday, June 29, 2022, at 7:00 a.m. and adjourned at 10:00 a.m. <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

B. ASHRAE CODE OF ETHICS - <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics>

C. ADDITIONS AND/OR CHANGES TO THE AGENDA

None

D. CHAIR'S REPORT

- a) Disposition of Motions from Last Meeting or Letter Ballots
 1. The three projects bid in Fall 2021(1874, 1900, and 1923) with project funding motions were approved by RAC/TechC in Las Vegas.
- b) New & On-going Action Items Assigned by Tech. Council

1. Completed RAC Budget Forecast form for TechC – See Attachment # 1
- c) New Information Items:
 1. Plans for ASHRAE Annual Meeting in Toronto
 2. PMS or PES Training Webinars – Need to set date for Webinars in spring and fall
 - d) MBO Status Report – Review with action items
(RAC basecamp/docs&files / ref info/ training/ rl training)
 - e) Action items from Spring
 - f) RL reminder sheet was updated with a standard format. A new copy is posted under Basecamp ASHRAE-RAC / Docs & Files / [RL Reminders 2022 Annual-12May2022.xls - ASHRAE - RAC](#) - This was acceptable to Donna and Mike.
 - g) As part of the Research Chairs breakfast, I will be reminding all Research chairs to ensure that the PMS meetings are public and should be posted in the program by the TC chairs and PMSC chairs. It should be mentioned that no results of the research project should be published until approved by the TC. It is ok for the public to attend the PMSc meetings and it is ok for the PMSC to publish minutes of progress but research results and reports should not be published until approved by the TC and ASHRAE. This will be mentioned at the Research subcommittee chairs breakfast on Monday Morning
 - h) RAC mbos were update at at ASHRAE RAC / Docs & Files / Ref Info / RAC New Topics / [May'22 RAC MBOs July 2021_22-Updated May12-2022map.xlsx - ASHRAE - RAC](#) ; items now show 100% complete
 - i) copy the Section TC rosters to the RL basecamp folders for each TC. Each new Year.
 - j) Mike P to complete PES training video by May 13 and post to ASHRAE Research Subc Chairs / docs & Files / ref info / training / pes training [PES Training - ASHRAE Research Subc Chairs](#) – this was completed and posted to basecamp: ASHRAE RAC/ Docs & Files / Ref Info/ Training / PES & PMS Training / PES Training / PES recording 20220615_081758-Meeting.MP4 (includes PPT and Transcript)
 - k) Mike P will add to the RAC Toronto agenda to form new RAC subcommittee to give guidance on new RAC automation project starting July 1, 2022. Omar and Bill will need to be involved with selection for people for the committee. – This was discussed as an action for followup with future RAC excom committee
 - l) Mike P to send a email to Stephanie to request her to set up invitation to Tech council for demo on Basecamp usage in RAC. This will be brought up again at the Tech Council Meeting with Stephanie
 - m) Mike P to send a email Tim McGinn to discuss plan to use RSP designation to implement & Monitoring plan to track Res Strat research. This was Completed May 12, 2022
 - n) Items sent to Tech council spring meeting will be used in the note to Tim McGinn. – This info was included in the note to Tim McGinn
 - o) New members update – we expect to see the final RAC roster for new Excom and new RL8 by end of May / early June; Staff Mike & Donna will inform us when available. New 2022-2023 Roster is posted on RAC basecamp / Docs & Files / RAC A22 / RAC SY22-23/ SY 22-23 Research Administration Committee Roster. PDF
 - p) Rac excom : Omar Chair, Bill VC, RPS (TBD), RAS (TBD), RL8 (new member) - New RPS & RAS subcommittee members will be decided after start of RAC SY 2022-2023 year.
 - q) Per agreement with Donna, she will post the PMS rosters directly to the RLs RP folder when it is available. RLs will be responsible for copying the RFPs directly to

- the RL basecamp site project folder.
- r) RAC Chair with help of RAC excom (chair = section 1; vice chair = section 2,3,4; RPS = section 5,6,7; RAS = section 8,9,10) will monitor and oversee consistency of RL basecamp site organization. This structure will be used for future actions from RAC Excom.
 - s) Representation for Stds, MTGs, URPs, TRG are dependent on the individual Research subcom chairs for rac communication to RLS, It might be good to have the RLs communicate to the special groups once per year to remind them of their availability to help or for communication of status. Non-TC groups and assignments are identified in ASHRAE RAC RL sites as folders.
 - t) Research subcomm chairs site: a basecamp page has been setup for Toronto at ASHRAE Res Subc chairs / docs & Files / breakfast slides & Presentation / Jun '22 TorontoHybrid ; it is the expectation that the RLs will fill out the paper copy of attendance and also update the Toronto res chair breakfast metg attendance form. This will be announced at the Toronto RAC meeting also..
 - u) RAC excom should review information and accuracy of ASHRAE RL sites updates: [ASHRAE RL 1](#), [ASHRAE RL 2](#), [ASHRAE RL 3](#), [ASHRAE RL 4](#), [ASHRAE RL 5](#), [ASHRAE RL 6](#), [ASHRAE RL 7](#), [ASHRAE RL 8](#), [ASHRAE RL 9](#), [ASHRAE RL 10](#) – This links serve as items to bookmark in RAC excom pc browsers.
 - v) Distribution of work across TC sections
 - w) RAC bios & information – Bill Murphy will assist in creation of a RAC bio page under Ref info / RAC Structure / RAC structure 22-23 page –Existing RAC excom could set the example with short bios. A photo of members or groups photo (as was done pre-covid may be handy!)
 - x) Omar to look up RAC minutes in regard to the “conflict of interest” topice from Chris Wilkins term (spring 2021) to see what was agreed to with conflict of interest policy. Omar to follow up with this.

E. BOD EX-OFFICIO & COORD. OFFICER

Tyler Glesne gave a brief presentation to RAC and thanked the committee for their work.

F. APPROVAL OF MINUTES – SPRING 2022 MEETING

It was moved and seconded that,

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

MOTION #1 PASSED: 13-0-0-1 (14) CNV

G RTAR REVIEW

RAC reviewed a total of two RTARs submitted by TC/TGs for addition to the Society’s Research Implementation Plan. One was accepted with comments and one was returned. The status of the RTARs after RAC review is provided below.

It is moved and seconded that,

- (2) **1942-RTAR**, *Evaluation of the Usability of ASHRAE Standard 207*, sponsored by TC 7.5 (Physiology and Human Environment), be accepted with comments.

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

RAC MOTION PASSED: 13-0-0-1 (14) CNV

It is moved and seconded that,

- (3) **1943-RTAR**, *Energy benefits of DOAS systems with demand control and full dehumidification*, sponsored by TC 8.10, (Mechanical and Desiccant dehumidification, Hot Pipes and components), be returned.

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

H. WORK STATEMENT REVIEW

Two work statements were submitted to RAC. One was returned with comments and one was rejected.

It is moved and seconded that,

- (4) **1928-WS**, *Improving biological efficacy test methods to measure in-room air cleaner performance against airborne pathogens*, sponsored by TC 2.9 (Ultraviolet Air & Surface Treatment), be returned.

RAS MOTION PASSED: 4-1-0-1 (6) CNV

It is moved and seconded that,

- (5) **1939-WS**, *A decision and evaluation framework to validate weather time series and statistics for use in building performance analysis and design*, sponsored by TC 4.2 (Energy Calculations), be rejected.

RAS MOTION PASSED: 4-1-0-1 (6) CNV

I. PROPOSED EDITS TO THE SERVICE TO ASHRAE AWARDS

MORTS to provide status update

J. PTAR REVIEW

PTAR -1, *Application of Manufacturer's Sound Data* - ??

PTAR -2, *Consecutive Devices Study* - Rejected

PTAR -3, *Radiant Design Guide* - Rejected

Recess Meeting

Reconvened JUNE 29th

K. TENTATIVE RESEARCH PROJECTS

It is moved and seconded that,

- (6) **1789-TRP**, *"Optical and thermal performance of hollow glass block units"* be awarded to University of North Texas for a period of 26 months at a total cost to ASHRAE of \$172,835. (**Attachment #1**)

MOTION PASSED:12-0-0-1 CNV

It is moved and seconded that,

- (7) 1815-TRP, “*Integrating Occupant Behavior Data into Building Information Modeling for Performance Simulation*” be awarded to Carmel Software Corporation for a period of 24 months at a total cost to ASHRAE of 177,000. (**Attachment #2**)

MOTION PASSED: 12-0-0-1 CNV

It is moved and seconded that,

- (8) 1835-TRP, *Characterizing the Performance of Induced Flow Stacks*” be awarded to Ohio State University for a period of 24 months at a total cost to ASHRAE of \$249,547. (**Attachment #3**)

MOTION PASSED: 12-0-0-1, CNV

It is moved and seconded that,

- (9) 1854-TRP, “*Database of Ultraviolet Inactivation Rate Constants (k-values) for Microorganisms Critical to System Design*” be awarded to Icahn School of Medical at Sinai for a period of 7 months at a total cost to ASHRAE of \$75,00. Attachment #2

MOTION PASSED: 13-0-0-1, CNV

STATUS OF OTHER TENTATIVE RESEARCH PROJECTS THAT WERE UP FOR FUNDING CONSIDERATION AT THIS MEETING:

- 1716-TRP, “Oil Concentration of Field Installed Liquid Chillers with Flooded Type Evaporators”; Responsible Committee: TC, 8.2, Centrifugal Machines, – Status: No Bids received.
- 1790-TRP, Distribution of Water Between Vapor and Liquid Phases of Low GWP Refrigerants; Responsible Committee: TC 3.3, Refrigerant Contaminant Control – Status: No Bids received.
- 1843-TRP, “Validation of Low-Order Acoustic Models of Combustion Driven Oscillations on Fire Tube Water Heaters; Responsible Committee: TC 6.10 Fuels and Combustion) – Status: TC did not recommend a contractor yet, and funding decision will carry-over to the fall meeting.
- 1879-TRP, “Foamability Properties of LGWP Refrigerant and Oil Mixtures” Responsible Committee: TC 3.4 Lubrication) – Status: TC did not recommend a contractor yet, and funding decision will carry-over to the fall meeting.

L. VICE CHAIR.

- a) Thank the chair and members rolling-off RAC (Pouchak, Tronville, Seeton, McGinn)
- b) Vice Chair and Subcommittee Chairs:
 - a. Omar Abdelaziz, Vice Chair
 - b. William Murphy, RAS chair
 - c. Paolo Tronville, RPS Chair
- c) Introduce new members of RAC
 1. Carl Hubert – RL Section 8.0 RPS
 2. Dennis Landsberg – RL Section 4.0 RAS

3. Doug Scott – RL Section 5.0 RPS
4. Sarah Maston -
 - a) Mentors for new members –
 - b) New RAC Member Training – early August Web session prior to fall meeting?
 - c) Review new assignments & positions for RAC members
 - d) Fall Meeting 2022 – Need to meet before TechC meets on September 27th, 2022.
 - e) Review SY 22-23 RAC MBOs

M. RL REMINDERS REPORT

RLs gave status report

N. MORTS REPORT

MORTS Report - available via basecamp

- a) Semi-Annual Report

O. RL REMINDERS REPORT

Available via basecamp

H. UNFINISHED BUSINESS

None

ADJOURNED

The meeting of the Research Administration Committee was adjourned at 10:30:00 a.m., Wednesday, June 29, 2022.