



Minutes
Chapter Technology Transfer Committee

Friday, January 19, 2024			
CTTC	8:00am – 12:00pm	Marriott Marquis Chicago, Shedd AB (2)	Hybrid
Member Services Subcommittee	1:00pm – 5:00pm	Marriott Marquis Chicago, Shedd AB (2)	Hybrid
Operations Subcommittee	1:00pm – 5:00pm	Marriott Marquis Chicago, Marina City (2)	Hybrid
Saturday, January 20, 2024			
Executive Subcommittee	8:00am – 9:00am	Marriott Marquis Chicago, Shedd AB (2)	Hybrid
CTTC	9:00am – 12:00pm	Marriott Marquis Chicago, Shedd AB (2)	Hybrid

Action Items:

No. - Pg.	Assignment	Action Item
1 – 2	All RVCs	Have a conversation with each Chapter Program Chair (or President if necessary) to clarify that every chapter presentation/speaker needs to be evaluated.
2 – 2	Operations Subcommittee	Make list of CTTC-related items/forms/documents that need regular maintenance and select a time when that review occurs.
3 – 2	Conor	Visit the YEA Committee meeting to see how CTTC can better serve YEA members.
4 – 2	John	Add a final slide to DL presentation that lists TCs related to their presentation topic.
5 – 2	Staff	Confirm TC Liaison position on CIQ.
6 – 2	Staff	Confirm ASHRAE Section list.
7 – 2	Staff	Review number of CRC evaluations submitted for Fall 2023 CRCs.
8 – 3	Staff	Post DL visit spreadsheet monthly for RVCs to access.
9 – 3	Staff	Add RVCs to notifications of entrants that weren't selected or asked to resubmit.

Motions:

No. - Pg.	Motion	Vote
1 – 2	Approval of the previous meeting minutes	19-0-0 CNV
2 – 3	The Full CTT Committee approves the new DL roster for 2024-25	19-0-0 CNV
3 – 4	To approve the amendment to the referred CRC motion	19-0-0 CNV
4 – 4	To approve the amended CRC motion	19-0-0 CNV

Attendance

- All Members Present: Andrew Reilman, Daniel Redmond, Heric Holmes, Frank Rivera, Abhi Khurana, Matthew Archey, Christopher Adams, Matthew Klok, Eric Johansen, Kevin Muldoon,

Kenneth Shifflett, Abigail Brophy, Tyler Bradshaw, Matt Parkes, Thiago Portes, Sivakumar Gadam, Conor Murray, Osama Khayata, John Constantinide, Elizabeth Zakelj, Wei Sun

Full Committee Agenda – Friday, January 19, 2024

1. **Call to Order** – Reilman
2. **Roll Call/Introduction of Guests** – Reilman
3. **ASHRAE Code of Ethics Commitment** – Reilman
In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.
4. **ASHRAE Diversity Commitment** – Reilman
ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and for the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socio-economic status, belief systems, sexual orientation or education.
5. **Review of Agenda** – Reilman
6. **Approval of Minutes** – June 23-24, 2023, during 2023 Annual Conference – Reilman (**Attachment A**)
 - a. **Motion #1:** John moved, Osama second to approve the previous meeting minutes. 19-0-0 CNV.
7. **Review of Action Items** – Reilman (**Attachment B**)
 - a. **Action Item #1:** All RVCs to have a conversation with each Chapter Program Chair (or President if necessary) to clarify that every chapter presentation/speaker needs to be evaluated.
 - b. **Action Item #2:** Make list of CTTC-related items/forms/documents that need regular maintenance and select a time when that review occurs. Assign to the Operations Subcommittee.
 - c. **Action Item #3:** Conor to visit the YEA Committee meeting to see how CTTC can better serve YEA members.
 - d. **Action Item #4:** Add a final slide to DL presentation that lists TCs related to their presentation topic. Assign to John.
 - e. **Action Item #5:** Staff to confirm TC Liaison position on CIQ.
8. **Special Reports**
 - a. Certification (**Attachment C**)
 - b. Membership Promotion
9. **Remarks**
 - a. BOD Ex-Officio – Wei Sun (**Attachment I**)
10. **Ad Hoc Reports**
 - a. Promoting Award Nominations and Technology Awards
 - i. Members: Chris (Chair), Frank, Liz, Abby
 - ii. Review of retro commissioning for Technology Awards
11. **Review of Regional Statistics** – Reilman (**Attachment D**)
 - a. **Action Item #6:** Staff to confirm ASHRAE Section list.
 - b. **Action Item #7:** Staff to review number of CRC evaluations submitted for Fall 2023 CRCs.
12. **CRC Referrals**
 - a. Please see **Attachment E** for the one CRC motion assigned to CTTC.
 - b. This motion was discussed by both subcommittees during their mid-year calls and the following update was provided to Members Council: CTTC agrees with the purpose of the motion and plans on presenting an amended motion at the Winter Conference in Chicago. If required, CTTC will be sure to complete the Project Evaluation Tool as well.
 - c. John was tasked with making edits to the motion, including updating the intent to decarb research as opposed to decarb offsets. We need to vote on these edits and present to Members Council during our report on Tuesday.

- d. Original motion: The Anthracite Chapter moves that Society create a budget line item to pay for Distinguished Lecturer (DL) travel carbon offsets, effective July 1, 2024. The budget line item shall be updated each year in parallel with the DL travel reimbursement budgeting process. These funds shall be managed by Society Staff to offset the environmental impact of DL travel each society year.
- e. Discussion will continue in subcommittees and during our full committee meeting tomorrow.

Full Committee Agenda – Saturday, January 20, 2024

1. **Call to Order** – Reilman
2. **Roll Call/Introduction of Guests** – Reilman
3. **ASHRAE Code of Ethics Commitment** – Reilman
In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.
4. **ASHRAE Diversity Commitment** – Reilman
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5. **Review of Agenda** – Reilman
6. **Subcommittee Reports**
 - a. Member Services – Redmond **(will be included as Attachment F)**
 - i. Is it possible for the digital participation form to be edited after it has been submitted (example: a DL changes their visit date after approved)?
 - ii. **Action Item #8:** Staff to post DL visit spreadsheet monthly for RVCs to access.
 - iii. Technology Awards – can we receive feedback on entries that weren't selected?
 1. **Action Item #9:** Staff to add RVCs to notifications of entrants that weren't selected or asked to resubmit.
 - iv. DL Roster: 86 to 93 DLs with no change to the number of allocated visits. Growing international DLs to make it easier for countries that have a longer distance to travel.
 1. **Motion #2:** The Full CTT Committee approves the new DL roster for 2024-25.
Vote: 19-0-0 CNV
 - b. Operations – Holmes **(will be included as Attachment G)**
 - i. Creation of an ad hoc to review the digital speaker evaluation form to be used for both DLs and non-DL speakers, as well as the Regional Speaker List. Members: Heric, Kenneth, Tyler, Matt Archey, Frank, Abhi, John.
7. **Status of 2022-23 MBOs** – Reilman **(Attachment H)**
 - a. MBO 7: We had 43 Society Tech Award entries this year, which is 23% more than last year.

Region	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	RAL
# of Entries	1	4	5	2	3	9	2	2	2	1	0	3	7	0	2

- b. MBO 9: As of 1/16/24, 104 out of 199 chapters (52%) have a CTTC co-chair (or additional CTTC position) listed on their CIQ.

Region	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	RAL
# of Chapters	5	6	3	2	8	6	5	3	5	5	4	16	8	3	25

% of Chapters	33%	67%	27%	29%	67%	55%	36%	20%	38%	36%	36%	100%	80%	38%	76%
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8. **CRC Referrals**

- a. Please see **Attachment E** for the one CRC motion assigned to CTTC.
- b. Original motion: The Anthracite Chapter moves that Society create a budget line item to pay for Distinguished Lecturer (DL) travel carbon offsets, effective July 1, 2024. The budget line item shall be updated each year in parallel with the DL travel reimbursement budgeting process. These funds shall be managed by Society Staff to offset the environmental impact of DL travel each society year.
 - i. John moved to amend the motion as follows, Matt Archey 2nd: The Anthracite Chapter moves that Society create a budget line item to pay for Distinguished Lecturer (DL) travel carbon **mitigation measures** offsets, effective July 1, 2024. The budget line item shall be updated each year in parallel with the DL travel reimbursement budgeting process. ~~These funds shall be managed by Society Staff to offset the environmental impact of DL travel each society year.~~
 - 1. Fiscal Impact: Approximately \$5,000-\$10,000 annually, depending on the **mitigation measures** offsets method selected.
 - 2. Staff Impact: **As determined by Society** [Not listed]
 - 3. Background: TBD
 - 4. **Motion #3:** Vote on amendment: 19-0-0 CNV
 - 5. **Motion #4:** Vote on amended motion: 19-0-0 CNV
 - ii. Clarified intent to permit motion execution.

9. **New Business** – Reilman

- a. CTTC Committee Dinner:
 - i. The local RVC plans the dinner/event with a \$50-60/person budget in mind.

10. **Next Meeting** – June 21-22, 2024 at the 2024 ASHRAE Annual Conference in Indianapolis, Indiana

11. **Adjournment**



**Minutes
Chapter Technology Transfer Committee**

Friday, June 23, 2023			
CTTC	8:00am – 12:00pm	Tampa Marriott Waterside, Meeting Room 11 (3)	Hybrid
Member Services Subcommittee	1:00pm – 5:00pm	Tampa Marriott Waterside, Meeting Room 11 (3)	Hybrid
Operations Subcommittee	1:00pm – 5:00pm	Tampa Marriott Waterside, Meeting Room 12 (3)	Hybrid
Saturday, June 24, 2023			
Executive Subcommittee	8:00am – 9:00am	Tampa Marriott Waterside, Meeting Room 11 (3)	Hybrid
CTTC	9:00am – 12:00pm	Tampa Marriott Waterside, Meeting Room 11 (3)	Hybrid

Action Items:

No. - Pg.	Assignment	Action Item
1 – 2	John	Work with TAC on creating recruitment-oriented sessions for TCs that are appealing to new members
2 – 3	Staff	Review if PAOE line item CT23 was utilized during the 21-22 SY
3 – 3	Operations Subcommittee	Review the CRC PPT to include this TC information
4 – 3	Andy & Staff	Create an email blast to relevant CTTC Chapter Chairs and RVCs to let them know about ULI and the NZI
5 – 3	Matthew Klok	Create procedure for chapter meeting attendees to download, complete, and submit a fillable PDF to the CTTC Chapter Chair for evaluating DLs/speakers
6 – 3	Promoting Awards Ad Hoc	Review the Dan Mills Chapter Programs Award for a decarbonization element
7 – 4	Member Services Subcommittee	Further development next steps for decarbonization efforts, including a motion that can be presented at the CRCs
8 – 4	Staff	Research average cost of DL cost – domestic vs. international
9 – 6	Abhi & John	Determine next steps for DL mixer video footage.
10 – 7	Award Ad Hoc	Review use of “promotion” within the categories on the Dan Mills Chapter Programs Award point tally form.
11 – 7	Staff	Distribute Mick’s slides for review
12 – 7	Staff	Make sure Tech Hours are available on the ASHRAE 365 app
13 – 7	Staff	Add the CRC PPT to Basecamp
14 – 7	DL Working Group	Research how to encourage more collaboration with DLs beyond CTTC
15 – 7	Staff	Staff to supply YEA with the Technology Award nomination, judging criteria, and PPT created by Matt and Chris.
16 – 7	Staff	Add a hyperlink (along with the existing QR code) to the digital evaluation form on the DL webpage.

Motions:

No. - Pg.	Motion	Vote
1 – 5	The DL Working Group recommends the following addition to the DL Evaluation spreadsheet...	17-0-0 CNV
2 – 5	Add “decarb program” to Item C in the Dan Mills Award points criteria section.	16-0-1 CNV

Attendance:

- Members Present: Daniel Robert, Andrew Reilman, Daniel Redmond, Frank Rivera, Abhi Khurana, Matthew Archey, Christopher Adams, Elizabeth Zakelj, Grant Page, Abigail Brophy, Tyler Bradshaw, Janice Peterson, Thiago Corrêa Fonseca Portes, Sivakumar Gadam, Osama Atef Khayata, John Constantinide, Heric Holmes, Wei Sun
- Members Absent: Arunabha Sau, Kenneth Shifflett, Mahroo Eftekhari
- Incoming Members Present: Matthew Klok, Eric Johansen, Kevin Muldoon, Matt Parkes, Conor Murray
- Guests: Devin Abellon, Julia Timberman, Kishor Khankari, Corey Metzger, Jim Arnold, Dennis Hassett, Larry Smith, Samir Hernandez, Julian Alvarez, Steve Grant
- Staff: Rhiannon Masterson, Anastasia Meadows, Tony Giometti

Full Committee Agenda – Friday, June 23, 2023

1. **Call to Order** – Robert
2. **Roll Call/Introduction of Guests** – Robert
3. **ASHRAE Code of Ethics Commitment** – Robert
In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.
4. **ASHRAE Diversity Commitment** – Robert
ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and for the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socio-economic status, belief systems, sexual orientation or education.
5. **Review of Agenda** – Robert
6. **Approval of Minutes** – February 3-4, 2023 during 2023 Winter Conference – Robert (**Attachment A**)
 - a. Moved by Matt, seconded by John. Vote: Unanimous approval.
7. **Review of Action Items** – Robert (**Attachment B**)
 - a. Action Item #7: Follow-up with DLs who did not respond to initial survey regarding in-person/virtual/hybrid visits. Status: partially complete.
8. **Remarks**
 - a. BOD Ex-Officio – Wei Sun (**Attachment L**)
9. **Special Reports**
 - a. John Constantinide, Tech Council “World of Tech @ ASHRAE” (**Attachment C**)
 - i. **Action Item #1:** John to work with TAC on creating recruitment-oriented sessions for TCs that are appealing to new members
 - ii. How can we incentivize recruiting for TCs at the chapter level?
 1. Encourage DLs to promote TCs they’re involved in
 2. Encourage chapters to review this topic at every chapter meeting; CTTC could create a couple of slides that could roll as the chapter meeting starts
 3. RVCs take this info to their CTTC Chapter Chairs, but we can streamline the process to make it as easy as possible – create marketing content/flyer that chapters can share

4. We award 100 PAOE points for every presentation that includes TC information (CT23). **Action Item #2:** Staff to review if this PAOE line item was utilized last SY.
5. **Action Item #3:** Review the CRC PPT to include this information
 - iii. Let the technology speak for itself
 - iv. Consistent and repetitive marketing – use a variety of formats
 - v. For the video, consider also making a shorter 2-minute version that could be shown at chapter meetings
- b. Grant Page, Certification Committee (**Attachment D**)
- c. Urban Land Institute and their [Net Zero Imperative](#) (NZI), that aims to accelerate decarbonization in the built environment
 - i. Daniel Robert had a call with ULI earlier this week. Looking to disseminate information about NZI to chapters that overlap with their program.
 - ii. **Action item #4:** Andy and Staff to create an email blast to relevant CTTC Chapter Chairs and RVCs to let them know about ULI and the NZI

10. Ad Hoc Reports

- a. DL Automation
 - i. Members: John (Chair), Grant, Abhi, Aru, Osama, Frank, Daniel Redmond
 - ii. Near completion with testing the digital DL Participation Form
 - iii. Next up is the DL Evaluation Form and then the DL Summary Form
 - iv. **Action Item #5:** Matthew Klok to create procedure for chapter meeting attendees to download, complete, and submit a fillable PDF to the CTTC Chapter Chair for evaluating DLs/speakers
- a. Promoting Award Nominations and Technology Awards
 - i. Members: Chris (Chair), Mahroo, Frank, Liz, Grant, Janice, Abby
 - ii. The new Technology Award nomination form is being used this Society Year, which eliminated the previous short and long nomination forms.
 - iii. **Action Item #6:** Review the Dan Mills Chapter Programs Award for a decarbonization element
- b. Decarbonization
 - i. Members: Daniel Robert (Chair), Daniel Redmond, Andy, John, Abhi, Aru
 - ii. Tried to create a program where we can offset our carbon footprint, especially with the number of in-person DL visits. We looked at using a third-party company, but decided against that. Instead we decided to put \$50,000 from the DL travel budget into an endowment that could be used toward decarbonization efforts; however, we were informed that we cannot transfer current CTTC funds into an ASHRAE endowment.
 - iii. Motion: CTTC recommends to the Board of Directors to create a committee or initiative to monitor Society decarbonization, effective February 1, 2024. Moved by John, seconded by Frank.
 1. Amendment from Heric: CTTC recommends to the Board of Directors to create a committee or initiative to monitor Society decarbonization activities including hiring of ESG consulting services, effective February 1, 2024.
 2. Motion withdrawn
 - iv. Motion: CTTC recommends to the Board of Directors to create an ESG Committee to coordinate with DEI and decarbonization activities, related to ASHRAE society operations, effective February 1, 2024.
 1. Background: The existing DEI Committee would report to this new ESG Committee
 2. Motion withdrawn
 - v. Alternative ideas:
 1. Present ideas at the BOD open comment session
 2. Have each RVC encourage a motion at their CRCs

3. **Action Item #7:** assign to Member Services Subcommittee for further development

11. **Review of Regional Statistics** – Robert (**Attachment E**)

- a. Out of 192 allocations, 190 have been used (there was one cancellation and one changed to a virtual visit)
- b. **Action Item #8:** Staff to research average cost of DL cost – domestic vs. international

12. **Liaison Talking Points** – Robert (**Attachment F**)

13. **Members Council Referrals**

- a. Motions from Spring 2023 CRCs assigned to CTTC:
 - i. Region XI, Regina, Motion #4: That the Chapter Technology Transfer Committee (CTTC) recommend to the Honors and Awards Committee (H&A) to consider offering ESA/DSA points for service on Judging panel for Society Technology Awards. 1 point for member per year and 1 1/2 points for chair of the committee per year. This would be the same points for Sub Committee members and Chairs.
 1. Background: Currently the service of the CTTC members of the Technology Awards Panel is not able to be recognized for points towards the ESA / DSA nomination. The time that is involved in reviewing and judging the Tech Awards is comparable to the work of most subcommittee that any member would sit on. YEA did this in the past to get approval to award points for the committee members that organize the YEA Leadership Weekends.
 2. Fiscal Impact: None
 3. Vote: 10-0-0-1 CNV
 4. CTTC Response: CTTC is in support of this motion going to the H&A Committee for further review. 15-0-1 CNV
 - ii. Region VI, La Crosse, Motion #6: That society provide an electronic form for the DL lecture surveys.
 1. Background: Having to print out DL lecture sheets for each DL, distributing, then collecting and tallying up the totals is a hassle to do that process manually. We propose to digitize the DL lecture survey to be able to take it on a smart phone or web browser so that the results can be collected automatically and sent to society reducing the time spent by each chapter manually tallying up the scores and reporting that to society. Save the trees and let's digitize the DL survey process.
 2. Fiscal Impact: App/website development cost. Could utilize the existing ASHRAE 365 app or ASHRAE.org website.
 3. Vote: 11-0-0-0 CNV
 4. CTTC Response: Already in progress with ASHRAE IT. Vote: 15-0-0-0 CNV
- b. Motion from Fall 2022 CRCs assigned to CTTC:
 - i. Region XIV, Cyprus Chapter, Motion #1: That Society increase the DL allocations to Region XIV from 8 to 12 in 2023-24.
 1. CTTC Response: The number of DL allocated visits are based on a formula of chapters and area assigned members. The allocations are reviewed by the DL Working Group and they make changes as they see fit. Any unused allocated visits are put into pool visits on December 1, which are available to any chapter on a first-come, first-served basis. Try to push for multi-chapter visits. Vote: 0-15 CNV
- c. Members Council asked for CTTC's insight and input for the MBO below. The CTTC Executive Subcommittee discussed this during their mid-year call and submitted the following feedback to Members Council:
 - i. Tech Hour meets the intent of this MBO and we plan on incorporating new ideas to improve global awareness, such as selecting a topic (i.e. refrigeration) and comparing its impact in two different countries and having a panel of 2-3 presenters from different areas that can speak on a topic and how it affects their geographical location.

- ii. We can encourage DLs to host virtual joint chapter presentations on topics of interest to both chapters. Maybe two DLS from two different countries could co-present on a topic for two different perspectives.

ASHRAE 2022-23 'Securing Our Future' Initiatives – Members Council MBOs						
MBO #	Initiatives	Action	Category	MC Assignment	Status	Update from Members Council
2	Harnessing the power of our relationships	Develop and conduct a program of virtual joint chapter meetings focusing on the critical issues of the day between North American ASHRAE Chapters and Chapters outside of North America.	Transparency	Region Operations Subcommittee	To be completed by the 2023 Annual Conference	MC Region Ops subcommittee referred to CTTC for program for this item.

Full Committee Agenda – Saturday, February 4, 2023

1. **Call to Order** – Robert
2. **Roll Call/Introduction of Guests** – Robert
3. **ASHRAE Code of Ethics Commitment** – Robert
In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.
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5. **Review of Agenda** – Robert
6. **Special Reports**
 - a. TAC – World of Tech, Larry Smith
 - i. Identify leaders within TCs and encourage them to apply to be a DL
 - b. Membership Promotion, Steve Grant
 - i. Cost of food at chapter meetings, which prompted a sponsorship opportunity. MP could use our help promoting this once it is ready to go – still being developed.
 - ii. The annual survey will now come from MP (per the Planning Committee).
7. **Subcommittee Reports**
 - a. Member Services – Reilman (**Attachment G**)
 - i. Presentation of the Donald A. Siller Refrigeration Award to Samir Hernandez of the Brasil Chapter.
 - ii. **Action Item #9:** Abhi & John to determine next steps for DL mixer video footage.
 - iii. **Motion #1:** The DL Working Group recommends the following addition to the DL Evaluation spreadsheet:
 1. In the DL Evaluation Sheet tab, under the “Bonus” group, add the following:
Tech Hour Presenter.
 - a. Make this category worth 1 point.
 2. In the DL Evaluation Rules & Guidance tab, under the "Evaluation Grading Category" grouping, add the following: Tech Hour Presenter.
 3. In the DL Evaluation Rules & Guidance tab, in the Explanation column adjacent to the added Tech Hour Presenter category, add the following: Has the DL or nominee been an ASHRAE Tech Hour presenter?
 - a. Background: As a way to further highlight the DL Program and utilize the expertise of our DLs to enhance the CTTC Tech Hour, adding a bonus point to DLs' grades for those DLs that presented a Tech Hour will encourage more DLs to present in CTTC Tech Hours. This is also a great way for nominees to compete to join the DL program by being a Tech Hour presenter.
 - b. Financial Impact: Staff costs to update documentation.
 - c. Vote: DL Working Group: 4-0-0 CV, Member Services Subcommittee: 6-0-0 CNV
 - i. Moved by Abigail. CTTC Vote: 17-0-0 CNV
 - iv. **Motion #2:** Add “decarb program” to Item C in the Dan Mills Award points criteria section.
 1. Background: Will be worth 10 points
 2. Moved by John, Second Janice
 3. Passed Unanimous, Chair not voting

4. CTTC Vote: Moved by Matt Archey. Vote: 16-0-1 CNV
 - v. **Action Item #10:** Award Ad Hoc to review use of “promotion” within the categories on the Dan Mills Chapter Programs Award point tally form.
- b. Operations – Redmond (**Attachment H**)
 - i. **Action Item #11:** Staff to distribute Mick’s slides for review
 - ii. **Action Item #12:** Staff to make sure Tech Hours are available on the ASHRAE 365 app.
 - iii. **Action Item #13:** Staff to add the CRC PPT to Basecamp
 - iv. **Action Item #14:** DL Working Group to research how to encourage more collaboration with DLs beyond CTTC
8. **Status of 2022-23 MBOs** – Robert (**Attachment I**)
9. **Old Business** – Robert
10. **New Business** – Robert
 - a. The YEA Committee is creating a new award and has asked if CTTC can provide guidelines/SOPs that we’ve created to audit and review project-based awards (Technology Awards). Their goal is to understand how CTTC reviews all of the applications that we receive.
 - i. **Action Item #15:** Staff to supply YEA with the Technology Award nomination, judging criteria, and PPT created by Matt and Chris.
11. **Change of Chair** – Robert/Reilman
 - a. Recognition of outgoing members:
 - i. Daniel Robert – Chair
 - ii. Aru Sau – Region V RVC
 - iii. Grant Page – Region VII RVC
 - iv. Janice Peterson – Region XI RVC
 - v. Mahroo Eftekhari – Region XIV RVC
 - b. Recognition of current members changing roles:
 - i. Andy Reilman – 1st Vice Chair to Chair
 - ii. Daniel Redmond – 2nd Vice Chair to 1st Vice Chair
 - iii. Heric Holmes – Tech Hour Coordinator to 2nd Vice Chair
 - iv. Liz Zakelj – Region VI RVC to Tech Hour Coordinator
 - c. Recognition of incoming members:
 - i. Matthew Klok – Region V RVC
 - ii. Eric Johansen – Region VI RVC
 - iii. Kevin Muldoon – Region VII RVC
 - iv. Matt Parkes – Region XI RVC
 - v. Conor Murray – Region XIV RVC
 - vi. Dennis Knight – Coordinating Officer
 - d. 2023-24 MBOs – Reilman (**Attachment J**)
 - i. **Action Item #16:** Add a hyperlink (along with the existing QR code) to the digital evaluation form on the DL webpage.
 - e. Appointment of 2023-24 Subcommittees and Mentors – Reilman (**Attachment K**)
12. **Next Meeting** – 2024 ASHRAE Winter Conference in Chicago, Illinois
13. **Adjournment**

Action Items assigned during the 2023 Annual Conference in Tampa

No. - Pg.	Assignment	Status	Action Item
1 – 2	John	In progress; Working with Tech Council; World of Tech at ASHRAE; videos, Journal/Insights article; social media; pre-made marketing material; goal to have completed by end of SY	Work with TAC on creating recruitment-oriented sessions for TCs that are appealing to new members
2 – 3	Staff	Complete: 21-22: 8 chapters entered points (4.42%) 22-23: 21 chapters entered points (11.6%)	Review if PAOE line item CT23 was utilized during the 21-22 SY
3 – 3	Operations Subcommittee	In progress; will add basic TC info in Spring 2024, and then add additional World of Tech info once available	Review the CRC PPT to include TC information
4 – 3	Andy & Staff	Open	Create an email blast to relevant CTTC Chapter Chairs and RVCs to let them know about ULI and the NZI
5 – 3	Matthew Klok	Complete	Create procedure for chapter meeting attendees to download, complete, and submit a fillable PDF to the CTTC Chapter Chair for evaluating DLs/speakers
6 – 3	Promoting Awards Ad Hoc	Complete	Review the Dan Mills Chapter Programs Award for a decarbonization element
7 – 4	Member Services Subcommittee	In progress	Further develop next steps for decarbonization efforts, including a motion that can be presented at the CRCs
8 – 4	Staff	In progress	Research average cost of DL transportation – domestic vs. international
9 – 6	Abhi & John	Complete; Marketing to create video by 24 Annual Conference	Determine next steps for DL mixer video footage
10 – 7	Award Ad Hoc	Complete	Review use of “promotion” within the categories on the Dan Mills Chapter Programs Award point tally form
11 – 7	Staff	Complete	Distribute Mick’s slides for review
12 – 7	Staff	Complete: the videos are hosted on YouTube, but are still linked within the app	Make sure Tech Hours are available on the ASHRAE 365 app

13 – 7	Staff	Complete	Add the CRC PPT to Basecamp
14 – 7	DL Working Group	Complete	Research how to encourage more collaboration with DLs beyond CTTC
15 – 7	Staff	Complete	Staff to supply YEA with the Technology Award nomination, judging criteria, and PPT created by Matt and Chris.
16 – 7	Staff	In progress; once IT is done, it will be added to the DL webpage; will be done by the 24 Annual Conference	Add a hyperlink to the digital evaluation form on the DL webpage.



JANUARY, 2024

ASHRAE CERTIFICATION: Information Chapters & Members Need

- ✓ Earn **100 PAOE points** for Member Certification and Recertification

NEW! Developments

- ✓ Chapter Technology Transfer: CT18 (for Certification and Recertification) now is a PAOE point line item that the ASHRAE database system will **automatically assign**.
- ✓ The [Certified Decarbonization Professional](#) (CDP) certification is **under development**.



- ✓ **25% Application Discount through January 31**

Recent Developments

- **Over 1,000 [Test Center Locations](#)** Worldwide
- Certification [Presentation](#) for **Chapter Meeting Delivery**
- **Renewing ASHRAE Full Members** now may select one of three (BCxP, BEMP or BCxP) ASHRAE Certification Exam Study Guide PDFs as their ASHRAE Benefit selection.



How can ASHRAE Certification help Chapters and Members?

Value for Chapters

- ✓ Grow Chapter membership | **Increase participation at education events**. Certificants need PDHs!
- ✓ **Earn 100 PAOE points** for Member certification and recertification.

Value for Chapter Members

- ✓ **Validation** of key job knowledge and skills
- ✓ Unparalleled **recognition** | **Career development**

Over **4,000 ASHRAE certifications** earned by built-environment professionals since 2007.

For assistance, including requests for promotional materials, please contact Tim Kline at tkline@ashrae.org,

**Summary of CTTC Regional Statistics
2024 ASHRAE Winter Conference**

ACTIVITY	Reg. I	Reg. II	Reg. III	Reg. IV	Reg. V	Reg. VI	Reg. VII	Reg. VIII	Reg. IX	Reg. X	Reg. XI	Reg. XII	Reg. XIII	Reg. XIV	RAL	Society Average/Sum
CRC (2023-2024 Society Year)																
Total number of chapters in region	15	9	11	7	12	11	14	15	13	14	11	16	10	8	33	199
Total number of sections in Region	0	0	1	4	1	3	0	3	4	2	3	7	5	4	2	39
Number of chapters present	8	9	4	5	8		11		9	12		13	7		23	109
Number of CTT chapter chairs or co-chairs present in-person	3	9	4	3	8		11		6	7		12	7		19	89
Number of CTT chapter chairs or co-chairs present virtually	0	0	0	0	0		0		0	0		0	0		0	0
Percentage of chapter participation	53%	100%	36%	71%	67%	0%	79%	0%	69%	86%	0%	81%	70%	0%	70%	52%
Percentage of CTT chapter chair participation	20%	100%	36%	43%	67%	0%	79%	0%	46%	50%	0%	75%	70%	0%	58%	43%
CRC Workshop Evaluation Summary Completed	0	0	0	0	0		0		0	0		0	0		1	1
PAOE - Will be completed after July 15, 2024																
No. of Chapters Reporting PAOE Points:																0
No. of Chapters Making Society Minimum (550):																0
No. of Chapters Making Society PAR (1500):																0
No. of planning sessions held																0
No. of Chapters Reporting TC Presentations																0
Highest PAOE Points by a Chapter:																0
Percentage of chapters reporting	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.0%
Percentage of chapters making Society Minimum	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.0%
Percentage of chapters making Society PAR	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0.0%
DISTINGUISHED LECTURERS																
Number of Allocations	16	12	13	10	12	13	12	14	13	14	13	13	12	10	18	195
Number of allocations used	1	9	5	5	4	6	10	9	9	11	5	12	9	2	18	115
Number of common pool visits used	2	0	0	1	1	0	2	2	0	2	2	6	3	9	12	42
Number of Multi-Chapter visits	0	1	1	0	1	0	0	2	0	1	1	2	0	0	6	15
Number of chapters hosting (inc. pool/multi visits)	2	6	5	4	7	4	9	8	10	11	8	9	6	2	15	106
Percentage of chapters hosting	13%	67%	45%	57%	58%	36%	64%	53%	77%	79%	73%	56%	60%	25%	45%	54.0%
Percentage of used allocations	6%	75%	38%	50%	33%	46%	83%	64%	69%	79%	38%	92%	75%	20%	100%	58.0%
Total percentage of use:	19%	75%	38%	60%	42%	46%	100%	79%	69%	93%	54%	138%	100%	110%	167%	81%
Number of non-allocated visits	5	5	3	4	4	3	4	4	6	3	3	23	1	1	19	88
Total number of in-person visits	1	0	1	0	0	2	0	1	1	1	0	7	3	0	1	18
Total number virtual visits	1	1	1	0	0	0	0	1	0	0	0	3	0	0	9	16
Total number of DL visits	8	14	8	10	9	9	16	15	15	16	10	41	13	12	49	245
ACTIVITY																
	Reg. I	Reg. II	Reg. III	Reg. IV	Reg. V	Reg. VI	Reg. VII	Reg. VIII	Reg. IX	Reg. X	Reg. XI	Reg. XII	Reg. XIII	Reg. XIV	RAL	Society Average/Sum
CHAPTER VISITS																
Number of in-person chapter visits made:	0	2	3	1	3	1	3	0	0	0	0	1	3		1	18
Number of virtual chapter visits made:	0	0	1	0	0	0	0	0	0	0	0	0	2		9	12
Percentage of chapters visited:	0%	22%	36%	14%	25%	9%	21%	0%	0%	0%	0%	6%	50%	0%	30%	14%
CTTC AWARDS (2023 Submissions)																
Dan Mills Chapter Programs Award	0	0	1	0	0	0	1	1	0	0	0	1	1	0	1	6
Donald A. Siller REF Award	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Technology Awards: Number of Regional Entries	2	5	7	2	3	9	2	8	2	1	0	5	8		2	56
Technology Awards: Number of Society Entries	1	4	5	2	3	9	2	2	2	1	0	3	7	0	2	43



Shaping Tomorrow's Built Environment Today

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Lizzy Seymour
Director, Member Services

lseymour@ashrae.org

September 15, 2023

TO: Andrew Reilman, Chapter Technology Transfer Committee Chair
Daniel Redmond, Chapter Technology Transfer Committee 1st Vice Chair
Heric Holmes, Chapter Technology Transfer Committee 2nd Vice Chair

Dear Andrew,

During the 2023 Fall CRCs the following motion was made and is referred to the Chapter Technology Transfer Committee.

Motion referred to CTTC for Recommendation to Members Council:

Please provide a recommendation for Members Council consideration for the motion noted below in your report to Members Council by the 2024 Winter Conference in Chicago.

Fall 2023 CRC, Region III Anthracite Chapter - Motion 7 (August 11, 2023): The Anthracite Chapter moves that Society create a budget line item to pay for Distinguished Lecturer (DL) travel carbon offsets, effective July 1, 2024. The budget line item shall be updated each year in parallel with the DL travel reimbursement budgeting process. These funds shall be managed by Society Staff to offset the environmental impact of DL travel each society year.

Background: The Distinguished Lecturer (DL) program is a shining example of ASHRAE's commitment to advance human well-being through sustainable technology for the built environment. Since the 1996-97 Society Year, the DL program has promoted knowledge sharing and provided ASHRAE chapters throughout the world with relevant experts, and the program does so without the barrier of transportation costs.

As ASHRAE grew as an international organization, the environmental impact of DL and other business travel has also expanded. While a seemingly simple solution is to make all DL visits and meetings virtual, this opposes the program's goal of reaching as many stakeholders as possible and would limit the impact a DL can have in a region. The value of in-person visits that combine chapter meetings with student, educator, government official, and local business visits is at the heart of this program's goals and is essential to its effectiveness.

ASHRAE continues to be at the forefront of the fight against climate change and must continue to "walk the talk" as we develop standards and guidance documents to reduce our impact on the planet. Offsetting the environmental impact of travel for a DL program that is essential to this journey is the next logical way to demonstrate our commitment to environmental stewardship.

ASHRAE generally experiences an overall budget surplus and rolls that surplus into a reserve account at the conclusion of each fiscal year. Knowing this, ASHRAE is encouraged to create a new line item during the budgeting process to address the environmental impact of today.



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Fiscal Impact: Approximately \$5,000-\$10,000 annually, depending on the offset method selected.

Staff Impact: [left blank]

CRC Vote: 8-2-0 CNV

This motion will require a recommendation to Members Council that will also need Board of Directors approval, if passed by the Council, you will be asked to also submit the attached [Project Evaluation Tool workbook](#). As the tool is owned by the Finance Committee, questions regarding the tool may be directed to [Craig Wright](#). Committees with motions that will also need BOD approval after Council consideration will be contacted regarding the tool before the motion(s) are sent to the BOD if it has not been received.

I would appreciate being updated on your progress with this motion by **December 15**. If you have any questions, please let me know.

Thank you,

A handwritten signature in black ink that reads "Lizzy Seymour". The signature is fluid and cursive, with the first name "Lizzy" and last name "Seymour" clearly distinguishable.

Lizzy Seymour
Director, Member Services
ASHRAE

CC: Dennis Knight, Members Council Chair
Bill McQuade, Members Council Vice Chair
Rhiannon Masterson, Chapter Technology Transfer Committee Staff Liaison
Tammy Catchings, Manager, Region Activities
Craig Wright, Director of Finance



**CTTC Member Services Subcommittee
January 19, 2024 from 1:00-5:00pm**

Action Items from the 2022 Annual Conference in Toronto:

No.	Assignment	Status	Action
1	Staff	Participation Form complete; Evaluation Form in progress	Staff to continue to work with IT on testing the digital DL form (DL Participation Form and Evaluation Form)

Action Items from the 2023 Winter Conference in Atlanta:

No.	Assignment	Status	Action
4	DL Working Group	Complete	Survey DLs to determine willingness to travel and feedback on decarb efforts

Action Items from the 2023 Annual Conference in Tampa:

No.	Assignment	Status	Action Item
1	Abhi & John	In progress; received by Marketing; hope to have video by Annual Conference	Determine next steps for DL mixer video footage

Action Items from mid-year call:

No.	Assignment	Status	Action Item
1	Staff	In progress	Work with IT to develop a way to have a copy of the original digital participation form provided to the RVC
2	Staff	In progress	Work with IT to fix issue with multi-chapter dates on digital participation form
3	DL Working Group and Staff	Complete	Send decarb survey to DLs
4	DL Working Group and Staff	Complete	Send reminder email to DLs about the mixer and mention idea of providing feedback during the mixer
5	Staff	Complete	Ask Marketing post to social with reminder regarding December 1st DL nomination deadline and info session
6	Staff	Complete	Send DL mixer footage to Marketing for editing
7	John	Complete	Make recommended edits to the CRC decarb motion, which will be presented to Members Council at the Winter Conference in Chicago.
8	Staff	Complete: ATC does not offer any type of trip insurance	Does ATC offer insurance for travel booked through them (similar to coverage offered when using your own credit card)?
9	Award Promotion Ad Hoc, John, Thiago	In Progress; New ideas will be provided by the summer meeting.	Tech Award judges will put together ideas for new judging criteria for retro-commissioning entries. Then the judges, John, and staff will reach out to EBCx-related TCs and ask for their feedback.

Action Items from this meeting:

No.	Assignment	Status	Action Item
1 – 2	John		Have TAC identify a liaison to CTTC

1. **Call to Order**

2. **Roll Call/Introduction of Guests**

- a. Subcommittee Members: Daniel Redmond (Chair), John, Chris, Abby, Thiago, Abhi, Osama, Frank, Matthew Klok, Matt Parkes
- b. Guests: Larry Smith, Nolan, Alexandre K.

3. **ASHRAE Code of Ethics Commitment**

In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interests.

4. **ASHRAE Diversity Commitment**

ASHRAE is committed to providing a welcoming environment. Our culture is one of inclusiveness, acknowledging the inherent value and dignity of each individual. We proactively pursue and celebrate diverse and inclusive communities understanding that doing so fuels better, more creative and more thoughtful ideas, solutions and strategies for the Society and for the communities our Society serves. We respect and welcome all people regardless of age, gender, ethnicity, physical appearance, thought styles, religion, nationality, socio-economic status, belief systems, sexual orientation or education.

5. **Action Items**

6. **Technology Awards**

- a. We received 43 entries for the 23-24 SY, which is a 23% increase from last year. Below is the breakdown of entries by Region:

Region	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	RAL
# of Entries	1	4	5	2	3	9	2	2	2	1	0	3	7	0	2

- b. The judging panel met October 20-21 to select the winners, who will be recognized at the Plenary during the 2024 Winter Conference in Chicago.

7. **CTTC Awards Executive Session**

- a. Dan Mills Chapter Programs Award
 - i. We received 6 nominations for the 23-24 SY, including Regions III, VII, VIII, XII, XIII and RAL.
 - ii. The working group for this award (Abhi, Thiago, Conor) reviewed nominations and selected a recipient to recommend to CTTC tomorrow. The recipient will be recognized at the Plenary during the 2024 Annual Conference in Indianapolis.
- b. Donald A. Siller Refrigeration Award
 - i. We received 1 nomination for the 23-24 SY, from Region XII.
 - ii. The working group for this award (Chris, Matthew, Matt) reviewed the nomination and will make a recommend to CTTC tomorrow. The recipient will be recognized at the CTTC meeting during the 2024 Annual Conference in Indianapolis.

8. **DL Program**

- a. Review of DL roster for 2024-25 SY **Executive Session**

9. **New Business:**

- a. John Constantinide – have TAC identify a liaison to CTTC



**CTTC Operations Subcommittee
January 19, 2024 from 1:00-5:00pm**

Action Items from mid-year call:

No.	Assignment	Status	Action Item
1 – 2	Liz	In progress	Teach out to Devin Abellon regarding his ‘Specify Radiant Heat Cool’ presentation as a future Tech Hour

Action Items from this meeting:

No.	Assignment	Status	Action Item
1 – 2	Subcommittee		Research and contact potential Tech Hour speakers and then submit to Liz
2 – 2	Conor, Siva, & Heric		Review TC info and make recommended additions by the end of February
3 – 2	RVCs		Upload to Basecamp any customized Regional slides they use at their CRCs
4 – 3	Heric		Ad Hoc creation to review purpose and need for Regional Speaker Lists.
5 – 3	Staff		Check on status of ashrae.org page that used to list all chapter meeting schedules, and is it tied to the “Chapter Meeting Schedules” reports within the Regional CTTC RVC reports.
6 – 3	Full Committee		Determine next steps and what works best for posting chapter schedules.

1. Call to Order

2. Roll Call

- a. Subcommittee Members: Heric (Chair), Liz, Matt Archey, Tyler, Eric, Kevin, Kenneth, Siva, Conor
- b. CTTC Members: Andy
- c. ASHRAE Staff: Rhiannon Masterson

3. ASHRAE Code of Ethics Commitment

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5. Tech Hour

- a. 2023-24 Tech Hours:
 - i. Mick Schwedler’s Tech Hour, *Building Decarbonization (Electrification) for Hydronic Systems*, went live November 14.
 - ii. Erin McConahey’s Tech Hour, *The Fraternal Twins of Decarbonization and Climate Resilience*, is final and will go live March 12th.
- b. SSPC 209 (simulation-assisted design) reached out to recommend a Tech Hour on the standard and general content of using simulation in building design.
- c. Potential speakers/topics:
 - i. Devin Abellon, Specify Radiant Heat Cool
 - ii. Mark Fly, HVAC Basics
 - iii. Bill Bahnfleth, Custom IAQ
 - iv. If decarb equals electrification, can the grid handle it? (previous conference presentation)
 - v. Smart grids
 - vi. MEP 2040
- d. **Action Item #1:** Research and contact potential Tech Hour speakers and submit to Liz.
- e. Here is a breakdown of views for each of the published Tech Hours as of 1/5/24:

Presenter	Topic	Views
Stephanie Taylor	Optimize Occupant Health, Building Energy Performance and Revenue through Indoor-Air Hydration	11,608
Richard Rooley	Where Have All The Ethics Gone?	4,587
Jay Enck & Reinhard Seidl	Commissioning	2,509
Doug Cochrane	Building EQ	1,169
Walter Vernon	Decarbonizing Healthcare	899
Karine Leblanc	Emotional Intelligence	698
Mick Schwedler	Building Decarbonization (Electrification) for Hydronic Systems	339

6. **Chapter Notes Newsletter**

- a. For the current SY, we published a DL Program article in July and will publish an article for each Tech Hour
- b. Ideas for topics:
 - i. Decarb efforts in regards to DL travel – after Winter Conference

7. **MOP Updates**

- a. No updates from staff

8. **CTTC CRC Presentation**

- a. Review TC information
 - i. **Action Item #2:** review TC info and make recommended additions by the end of February. Assign to Conor, Siva, and Heric.
 - ii. **Action Item #3:** RVCs to upload to Basecamp any customized Regional slides they use at their CRCs.
- b. Any other recommended updates to include when we review in the spring?

9. **PAOE**

- a. Heric is serving as the PAOE representative for CTTC.
- b. Earning points for having a YEA member serving on a chapter CTTC committee. 100 points.
- c. Discussed reaching out to CTTC Chapter Chairs on a regular basis about adding PAOE points throughout the SY.

10. New Business

- a. Regional Speaker Lists
 - i. Each RVC is supposed to maintain a list, but many Regions don't have a list.
 - ii. Are they worth keeping and updating? What specific purpose do they fill?
 - 1. Could serve as a list of back-up speakers in the event that a speaker is unable to attend at the last minute.
 - iii. Is there where evaluation scores for non-DL speakers are housed?
 - iv. **Action Item #4:** Ad Hoc creation to review purpose and need for Regional Speaker Lists.
- b. Chapter Schedules
 - i. Central location for RVCs to access schedules for all their chapters (meetings, dates, location, and speaker/topic).
 - ii. **Action Item #5:** Staff to check on status of ashrae.org page that used to list all chapter meeting schedules, and is it tied to the "Chapter Meeting Schedules" reports within the Regional CTTC RVC reports.
 - iii. **Action Item #6:** CTTC to determine next steps and what works best for posting chapter schedules.

11. CRC Referred Motion

- a. Potential edit: "These funds shall be managed by the Center of Excellence for Building Decarbonization to make a tangible impact."

12. Regional Statistics Spreadsheet

- a. Included as **ATTACHMENT A**.

MBO #	Description	Measurable Metric	Initiative #	Goal #	Completion % /Date	Financial Assist Req'd?	Staff Assist Req'd?	MBO Comments
		(how do we determine success?)						
1	Encourage recruitment of diverse representation in Chairs and RVCs with quarterly email to Chapter Presidents, CTTC Chairs and RVCs		4		June 2024			Diverse representation results in proactive outreach. CTTC can provide a quarterly email flyer that Chapters can forward to their membership to promote awareness that Grassroot Committees are actively seeking members of underrepresented groups from our community.
2	Ensure that 100% of Regions report their regional statistics and give time to review and discuss challenges, achievements and trends		3, 4		Fall 2023, Spring 2024			Statistics for PAOE and other Regional data provide a valuable metric for evaluating the health of Chapter operations. Recent years have shown a decline in consistent reporting.
3	At least 50% of Chapter Programs (including DL) use electronic eval form.		3, 4		Fall 2023, Spring 2024			The newly developed electronic form and process needs more promotion, testing and fine-tuning.
4	Work with RVCs to solicit Donald Siller Refrigeration awards submissions.		1, 2, 4		June 2024			Current, major, changes in refrigerant technology and regulation have a significant effect on members. Promotion of refrigeration activities and recognition through awards will highlight the need for tech transfer related to the "R" in ASHRAE.
5	Complete four Tech Hour recordings and broadcast a minimum of three during the year. At least one non-technical topical and one decarbonization topic.		1, 2, 3		June 2024			To continue to develop the ASHRAE Tech Hour program to deliver multiple relevant and innovative Tech Hour programs during the 23-24 SY.
6	Work toward reducing our carbon footprint while continuing to provide member benefits and services.		4		June 2024			ASHRAE is promoting decarbonization to reduce GHG. CTTC needs to embrace this and find ways to reduce our carbon footprint, which shows everyone that we not only promote decarbonization, but we are doing our best to practice it.
7	Work with all RVCs to increase the number of Technology Awards submissions, both regionally and at the Society level.		4		June 2024			Each chapter should have at least one submission to the regional level. At least one submission to Society from these areas: Region VIII (Mexico), Region XII (Caribbean, Central/South America), Region XIII, Region XIV, and RAL.
8	Conduct two mid-year virtual subcommittee meetings per year.		3		Fall 2023, Spring 2024			This has shown to be a very valuable practice and has resulted in more rapid completion of CTTC initiatives. We will continue to enhance CTTC communications to ensure we are all meeting our goals in a timely manner.
9	Work with all chapters to appoint at least one CTTC Co-Chair (vice-chair) per chapter (Target: at least 80% of chapters)		4		June 2024			Many other MBOs and initiatives are reliant on enough volunteers to share the tasks. Work with all chapters to appoint at least one CTTC Co-Chair (vice-chair) per chapter (Target: at least 80% of chapters)



**2024 ASHRAE
WINTER CONFERENCE**
CHICAGO, JAN 20-24 | AHR EXPO, JAN 22-24

LEADERSHIP PRESENTATION

By CTTC ExO

Code of Ethics

We will act with honesty, fairness, courtesy, competence, inclusiveness and respect for others, which exemplify our core values of excellence, commitment, integrity, collaboration, volunteerism and diversity, and we shall avoid all real or perceived conflicts of interest.

Harassment and Discrimination

ASHRAE strictly prohibits and does not tolerate discrimination against members or applicants for membership because of such individual's race, color, religion, age, sex, sexual orientation, national origin, physical or mental disability, pregnancy, genetic information, veteran status, uniformed service member status, or any other category protected under applicable law.

Commercialism

ASHRAE's Commercialism Policy allows for Society activities that fulfill the mission of technological advancement with adherence to business plans that generate income to offset operational expenses such as AHR Exposition, ASHRAE periodicals, website, and Society conference events such as the Welcome Party, luncheons, registration kits, and receptions.

STRATEGIC PLAN



Give your feedback

Submit

DIVERSITY, EQUITY, INCLUSION

Updates & Resources Available

New forum recording added:
Implementing DEI Within Your Organization



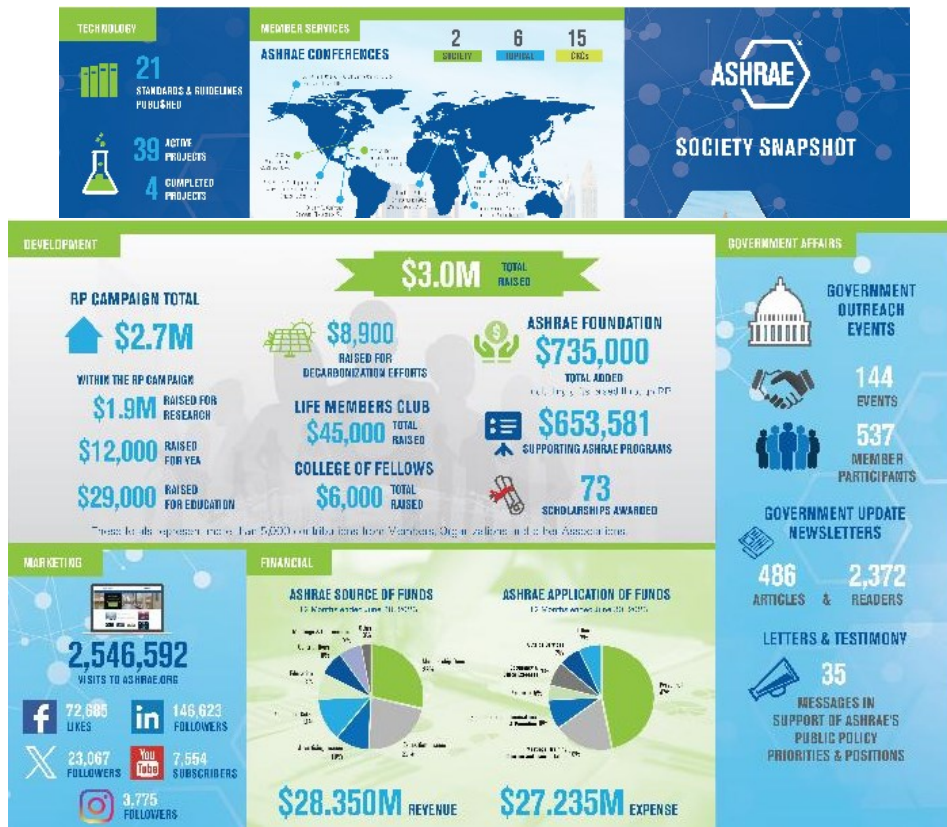
Ginger Scoggins
P.E., 2023-24 ASHRAE
President



Mindy Gulati
CEO, Fundamental Advisory

Register to Attend the Women in ASHRAE Breakfast,
Monday at 7:00 am.

SOCIETY SNAPSHOT



MARKETING CENTRAL



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Quebec, Canada

Region III



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Bryan Holcomb
Oak Ridge, North Carolina

Region V



James Arnold, P.E.
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Region VI



Susanna Hanson
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Region VII



Scott Peach, P.E.
Mobile, Alabama

Region VIII



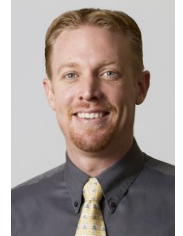
Joseph Sanders
Oklahoma City, Oklahoma

Region IX



Jonathan Smith, P.E.
Lenexa, Kansas

Region X



Buzz Wright, P.E.
Tucson, Arizona

Region XI



Eileen Jensen, P.E.
Vancouver, Washington

Region XII



John Constantinide, P.E.,
Merritt Island, Florida

Region XIII



Cheng Wee Leong, P.E.,
Singapore

Region XIV



Mahroo Eftekhari, C.Eng., CDPPhil
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Richie Mittal
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Ginger Scoggins
2023-2024 ASHRAE President

Engineered Designs, Inc.
1151 SE Cary Pkwy., Ste. 200
Cary, NC 27518
Phone: (919) 851-8481
Email: gscoggins@engineereddesigns.com

November 17, 2023

California Energy Commission
Docket Unit, MS-4
Docket No. 22-BSTD-01
715 P Street
Sacramento, California 95814

Sent via email to: docket@energy.ca.gov

RE: Docket 22-BSTD-01: 2025 Update to California Energy Code

Dear Chair Hochschild and Commission Members:

Thank you for the opportunity to comment on Docket 22-BSTD-01, California's proposed 2025 Building Energy Efficiency Standards.

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Society Year 2022-2023



\$800,000 Raised for Endowments

Research Promotion Campaign Total \$2.7M
(Research, YEA, ALI, Scholarships, General)



\$298,750 Awarded through
76 Scholarships



Within the RP Campaign
\$2M Raised for Research



\$50,000 Raised by College
of Fellows and Life Members Club



\$1M Given by ASHRAE
Regions, Chapters and Sections

More than 4,000 contributions from Members, Organizations and other Associations

Task Force for Building Decarbonization



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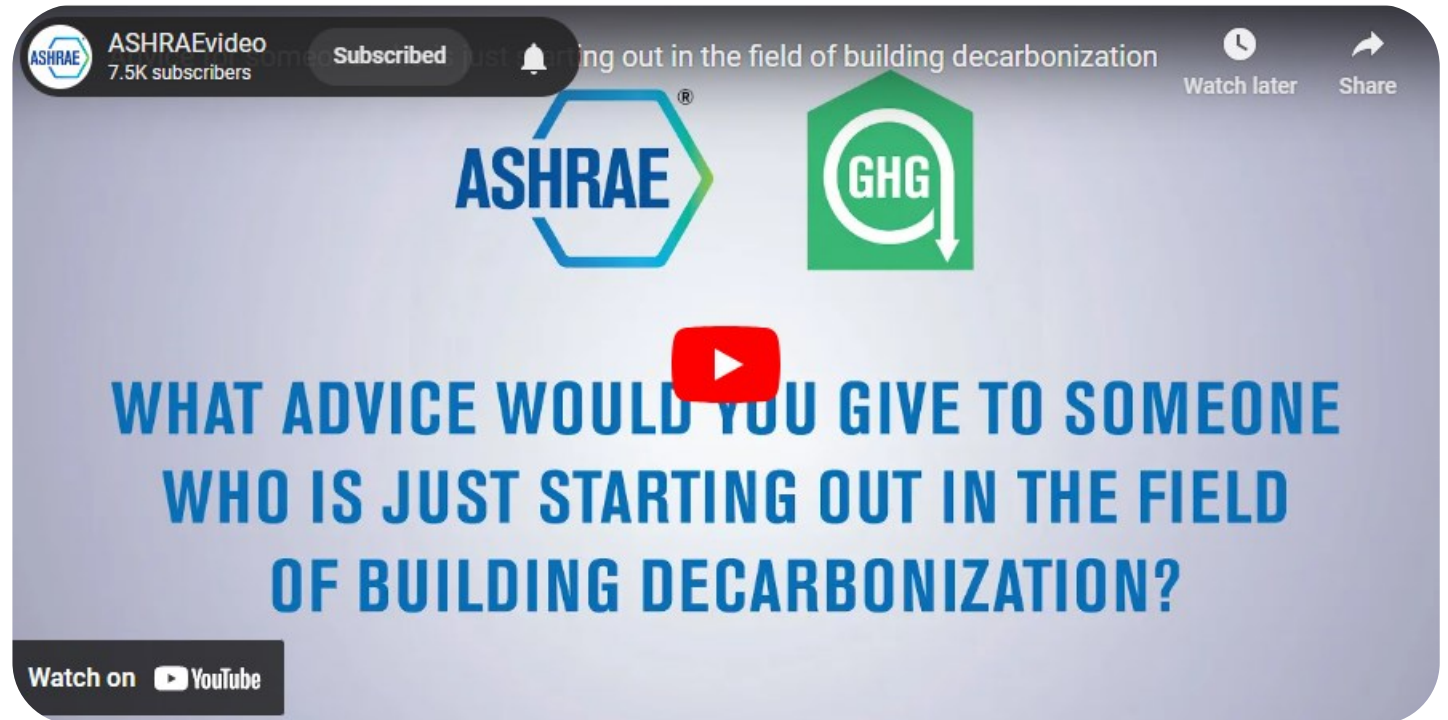
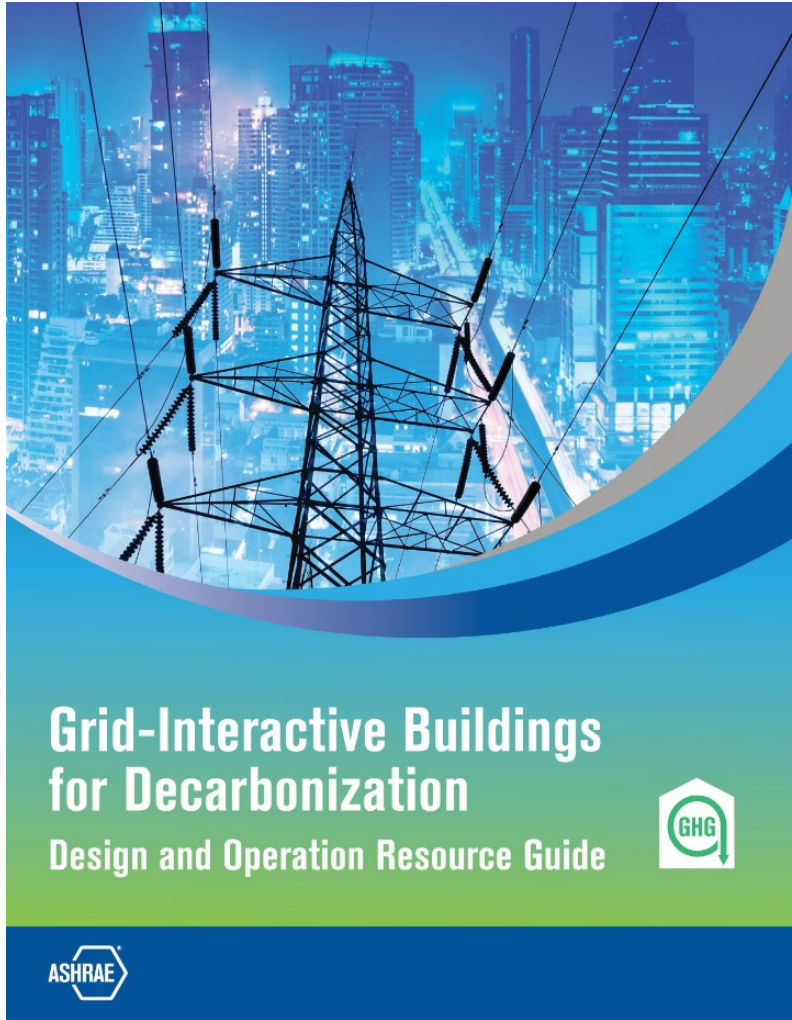
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ASHRAE Standard 241-2023

Control of Infectious Aerosols

Approved by the ASHRAE Standards Committee on June 24, 2023.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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This standard includes links to online supporting files.



ANSI/ASHRAE Standard 228-2023

Standard Method of Evaluating Zero Net Energy and Zero Net Carbon Building Performance

Approved by the ASHRAE Standards Committee on February 4, 2023; by the ASHRAE Board of Directors on February 8, 2023; and by the American National Standards Institute on March 8, 2023.

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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PDF includes hyperlinks for convenient navigation. Click a reference to a section, table, figure, or equation and jump to its location in the document.



ANSI/ASHRAE/IES Standard 100-2024
(Supersedes ANSI/ASHRAE/IES Standard 100-2018)
Includes ANSI/ASHRAE/IES addenda listed in Appendix N

Energy and Emissions Building Performance Standard for Existing Buildings

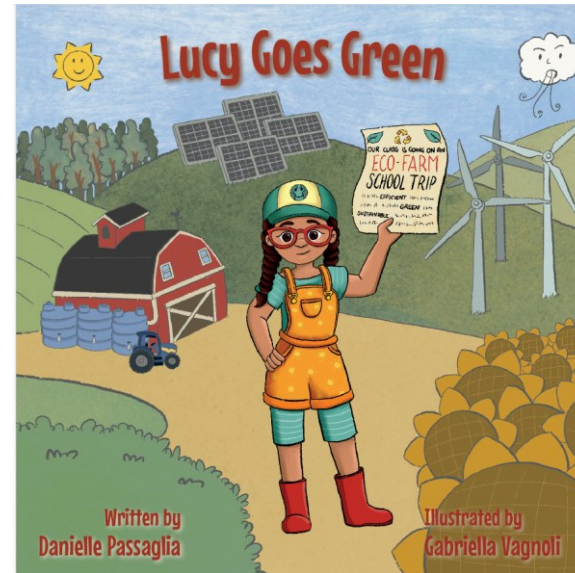
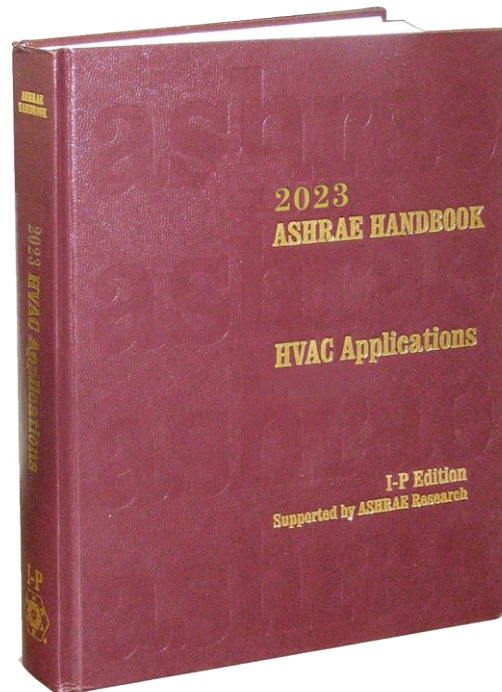
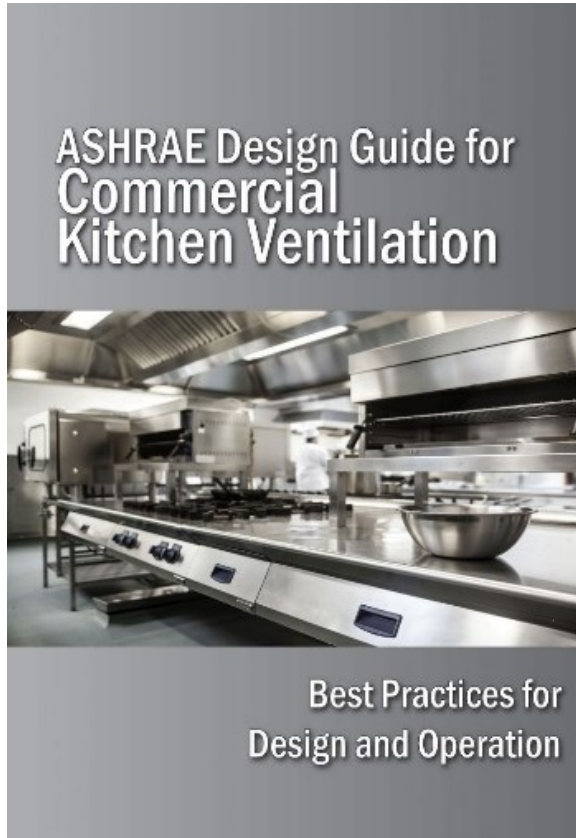
See Informative Appendix N for approval dates by ASHRAE, the Illuminating Engineering Society, and American National Standards Institute.

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**Lucy Goes Green
Book Signing!**
ASHRAE Bookstore at the
Marriott Marquis, Sunday,
Jan. 21 at 9:00 AM.

Design Guidance for Education Facilities: Prioritization for Advanced Indoor Air Quality Version 2.0

Developed by
ASHRAE Technical Committee 9.7, Educational Facilities

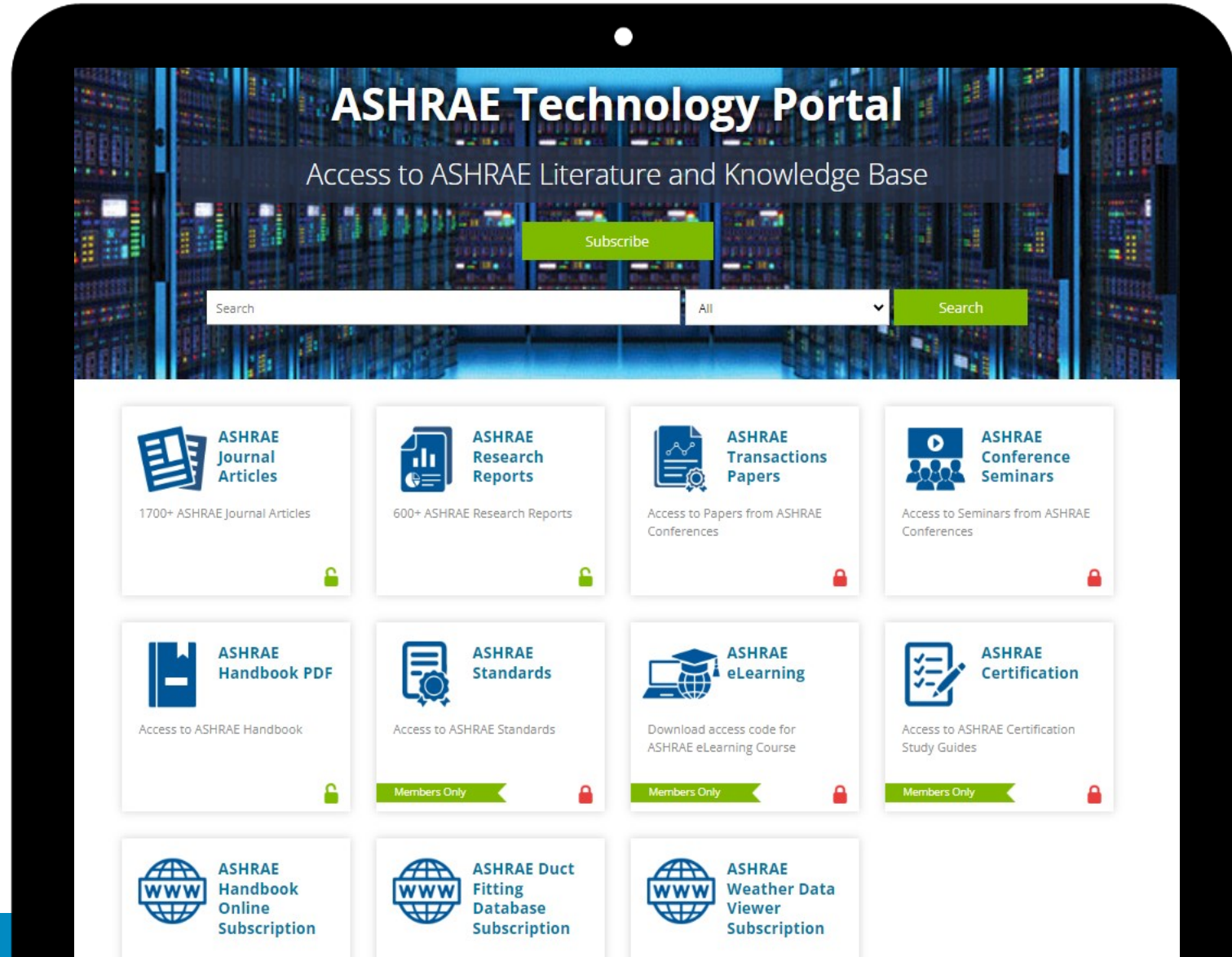


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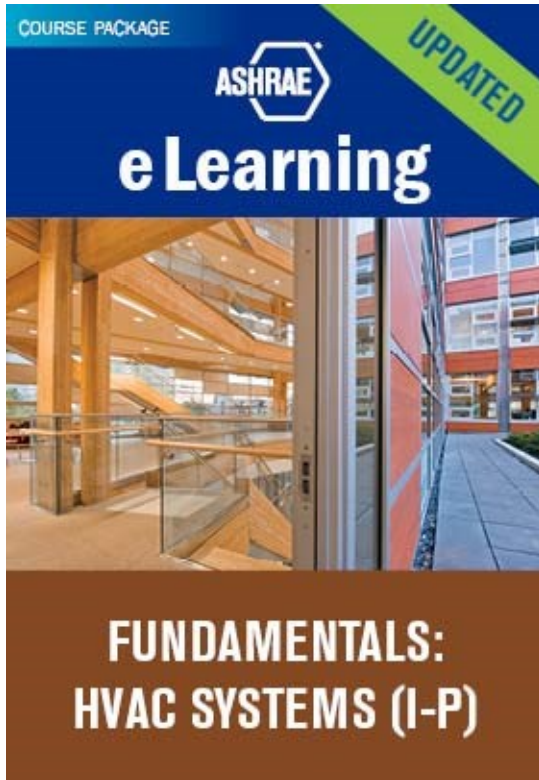


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ASHRAE Standard 241-2023

Control of Infectious Aerosols

Approved by the ASHRAE Standards Committee on June 24, 2023.

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Madrid, April 17-19

2024 ASHRAE International Conference
on Building Decarbonization



Indianapolis, June 24-26

2024 ASHRAE Conference for Integrated
Design, Construction & Operations



Chicago, September 26-27

Women in ASHRAE Leadership Symposium



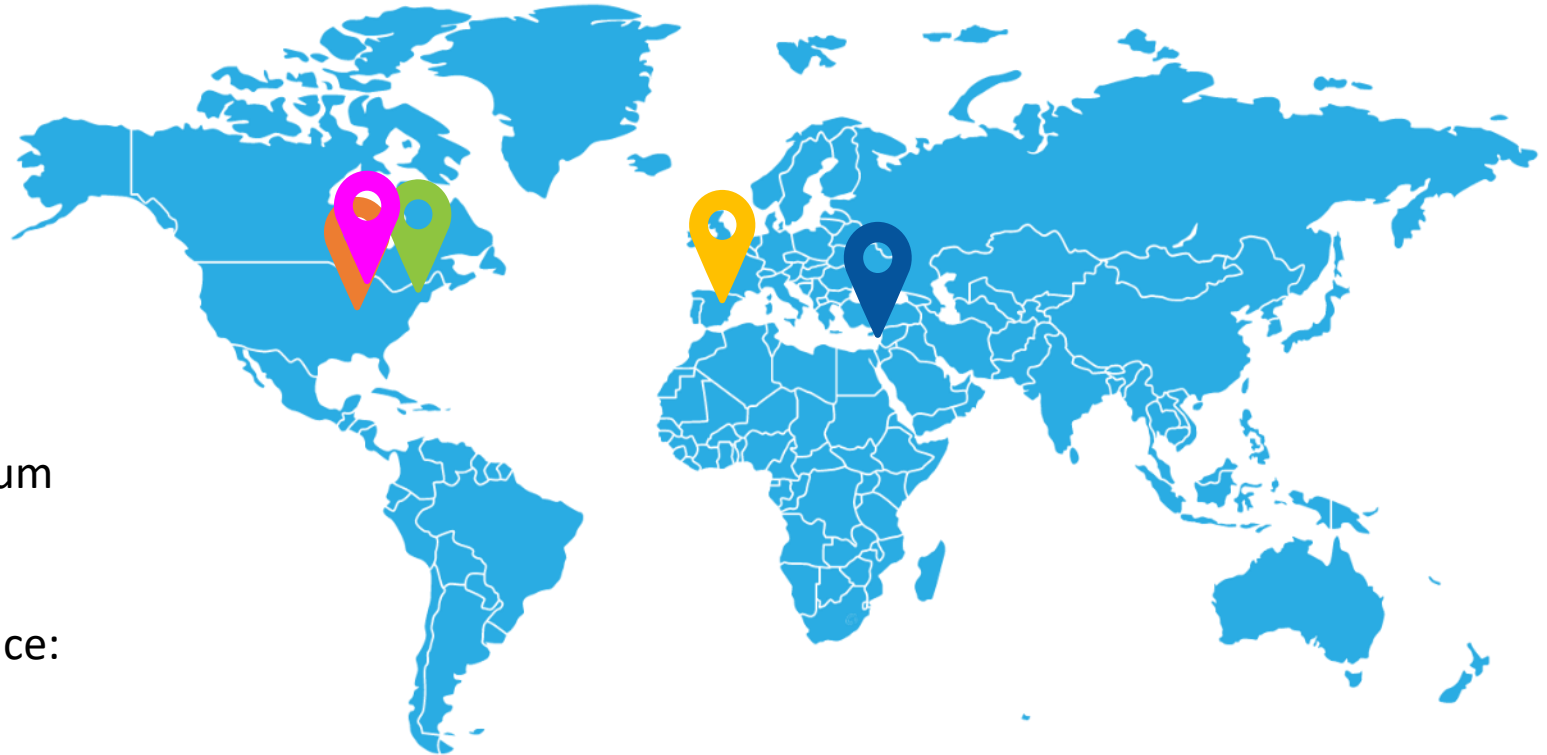
New York City, October 21-23

2024 ASHRAE Decarbonization Conference:
Decarbonizing Existing Tall Buildings



Beirut, October 3-4

The Sixth International Conference on
Efficient Building Design



Events & Conferences: Tradeshows



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Meet and Greet with President Ginger Scoggins

3:00 -4:00 PM |
Monday, Jan 22
ASHRAE Booth **S6810**



ASHRAE at Industry Events



Toronto, ON | March 20-24
Visit ASHRAE at Booth 646



New Delhi, India | Feb. 15-17

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Find Committees and Nominate Yourself or Others

FEB
2024

February: Nominations for appointed committees are due **February 16, 2024.**

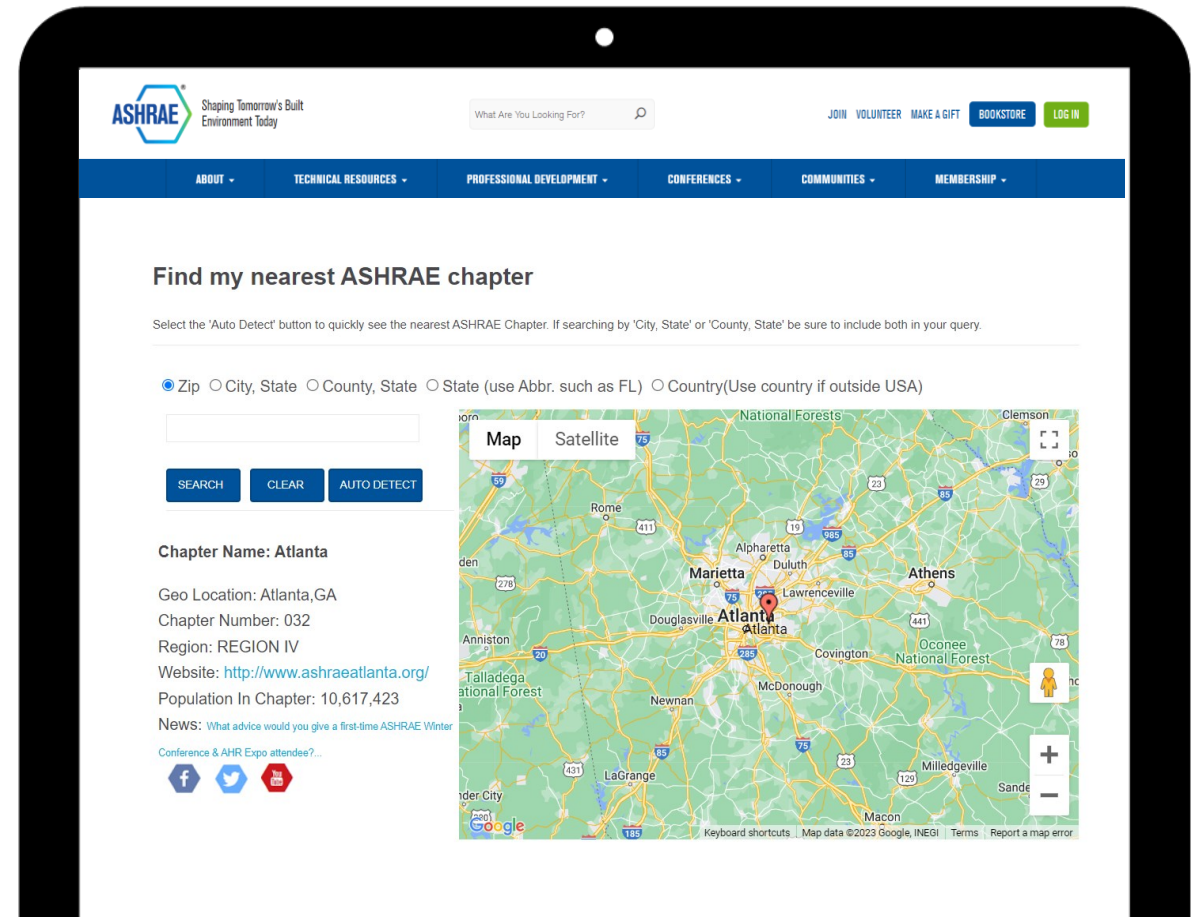
JUN
2024

June: Speak with your committee ExO/CO if your current appointment/elected position ends to be nominated for another.

SEP
2024

September: Nominations for elected positions are due. (Publications & Education Council, Tech Council, RAC, TAC, Standards, Handbook, Nominating)

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Fellow | Honorary Member | ASHRAE Hall of Fame | F. Paul Anderson Award
ASHRAE Pioneers of the Industry | ASHRAE Award for Distinguished Public Service

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**Asked to make a statement
on behalf of ASHRAE?**

Please send all media
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before responding to
members of the press.

Thank you!
Questions or Comments?