



**Minutes**

**Chapter Technology Transfer Committee  
Virtual - GotoMeetings**

**Friday, June 19, 2020**

**Full Committee – 8:00am-10:00pm – GotoMeetings  
Subcommittee Meetings – 10:00-12:00pm – GotoMeetings**

**Saturday, June 20, 2020**

**Executive Subcommittee – 7:00-8:00am – GotoMeetings  
Full Committee – 8:00am-12:00pm – GotoMeetings  
New Member Orientation – 12:00-1:00pm – GotoMeetings**

## Attendance

### **Members Present**

Nathan Hart  
Thursten Simonsen  
Mohammad Al Tassi  
Charles Bertuch  
Daniel Redmond  
Jeffrey Gilbeaux  
Christopher Adams  
Carl Schultz  
Andrew Babler  
David Ballard  
Peter Sudbeck  
Russell Pratt  
Kevin Blankemeier  
Heric Holmes  
Walter Lenzi  
Renjie Jerry Huang  
Serafin Grana  
Ahmad Nour  
Stephen Piccolo  
Andrew Reilman  
Ashish Rakheja  
\*Arunabha Sau  
\*Elizabeth Zakelj  
\*Grant Page  
\*Janice Peterson  
\*John Constantinide  
\*Daniel Robert

### **Members Absent**

Chuck Gulledge

### **Guests**

Mark Bettin  
Devin Abellon  
Andres Sepulveda  
Doug Cochrane  
Mick Schwedler

### **Staff**

Anastasia Meadows  
Joyce Abrams  
Eunice Njeru

\*Incoming 20-21 Members

## Principal Approved Motions

<b>No. – Pg.</b>	<b>Motion</b>
1 – 3	The minutes from the CTTC meeting held January 31-February 1, 2020 in Orlando be approved.
2 – 3	To approve changes to regional statistics form and proposed edits.
3 – 3	To adopt the revised Dan Mills Point Calculation Form as presented.
4 – 4	To approve a pilot use of 2-4 users of Poll Everywhere (Poll EV) for the DL program.
5 – 4	To approve the CTTC MOP Tech Hour revisions.

## Action Items

<b>No. – Pg.</b>	<b>Responsibility</b>	<b>Summary of Action</b>
1 – 4	Staff	Send out a batch of received summary forms to DL Ad Hoc twice per year in the spring and fall. DL Ad Hoc to review for general feedback.

2 – 4	Reilman	Andy to reach out to track chair Corey Maggie or Tony Giometti.
3 – 4	Operations Subcommittee	Update MOP to include all 15 regions and consider other committees. Reflect correct number of voting members chair and vice chairs. Complete by August so that it can be emailed voted on before the fall meeting.

## Minutes

### 1. Call to Order

- a. Chair Hart called the meeting to order at 8:02am

### 2. Roll Call/Introduction of Guests

### 3. ASHRAE Code of Ethics Commitment

*In this and all other ASHRAE meetings, we will act with honesty, fairness, courtesy, competence, integrity and respect for others, and we shall avoid all real or perceived conflicts of interest. (See full Code of Ethics: <https://www.ashrae.org/about/governance/code-of-ethics>)*

### 4. Review of Agenda

### 5. Approval of Minutes

- a. It was moved and seconded that:
  - i. **Motion (1)** The minutes from the CTTC meeting held January 31-February 1, 2020 in Orlando be approved.
  - ii. **Motion (1) passed.** Vote: unanimously passed

### 6. Review of Action Items

- a. Review of action items from January 31-February 1, 2020 meetings

### 7. Special Reports (See “Special Reports”)

- a. Certification Committee - Chair, Mark Bettin
- b. eLearning – Eunice Njeru, ASHRAE Staff
  - i. Ms. Njeru reviewed the available 50% coupon, LinkedIn presence, and the goal to create awareness for eLearning programs
  - ii. eLearning allows you to learn at your own time since it is completely online
  - iii. 80% is needed to pass the test and then a certificate is provided
  - iv. Review of reasons to use eLearning and popular courses

### 8. Reports from Adhocs

- a. Regional Statistics – Bertuch
  - i. Charles reviewed changes as proposed at Orlando meeting and made final edits
  - ii. **Motion (2)** To approve changes to regional statistics form and proposed edits.
  - iii. **Motion (2) passed.** Vote: unanimously passed
- b. Online Chapter Programs Ad Hoc – Holmes
  - i. Pending research of topic
  - ii. Sunsetting this ad hoc
  - iii. Smaller group to be created – Member Services; Guidelines Ad Hoc; guidelines to be drafted and completed by fall conference call so that it can be voted on
    - 1. John Constantinide, Heric Holmes, Grant Page, and Charles Bertuch
- c. Online DL Content Form Ad Hoc – Lenzi & Simonsen
  - i. To be taken to subcommittee meeting
  - ii. Refocus back to idea of this committee
  - iii. Joyce – Society discourages recording DL content/presentations

### 9. Review of Regional Statistics

### 10. Liaison Talking Points

- a. Member services subcommittee to take this on and suggest edits/updates in subcommittee meeting on 6/19/20
11. **Subcommittee Meetings**
- a. Member Services – 10:00-12:00pm – GotoMeetings
  - b. Operations – 10:00-12:00pm – GotoMeetings
  - c. Executive – Saturday, June 20, 2020 - 7:00-8:00am – GotoMeetings
12. **Call to Order**
- a. Chair Hart called the meeting to order at 8:07am
13. **Roll Call/Introduction of Guests**
14. **Remarks**
- a. BOD Ex-Officio presentation – Ashish Rakheja
15. **Subcommittee Reports**
- a. Member Services – Simonsen
    - i. **Motion (3)** To adopt the revised Dan Mills Point Calculation Form as presented.
    - ii. **Motion (3) passed.** Vote: unanimously passed
  - b. Operations – Al Tassi
16. **Status of 2019-20 MBOs**
- a. Chair Hart reviewed the 2019-2020 MBOs
17. **Members Council Referrals**
- a. Status of Members Council referrals from Orlando Winter Conference:
    - i. That the candidate requirements for all Regional Vice Chair positions be revised except for the YEA Regional Vice Chair as follows: “Regional Vice Chairs shall hold Member grade or higher in the Society, shall have been in the grade of Member and in good standing ~~for three years prior to the start of their terms...~~”
      - 1. Members Council suggested to withdraw the motion and resubmit. No need to bring a revised motion. Waiting for status from other standing committees because other committees have already submitted a revised motion.
18. **Old Business**
- a. Action items from Orlando 5-6 review (Orlando Minutes): standing action item. Send out a batch of received summary forms to DL Ad Hoc twice per year in the spring and fall. DL Ad Hoc to review for general feedback.
  - b. PolIEV DL motion:
    - i. **Motion (4)** To approve a pilot of 2-4 users of Poll Everywhere (Poll EV) for the DL Program.
    - ii. **Motion (4) passed.** Vote: unanimously passed
  - c. Action Item: Andy to reach out to track chair Corey Maggie or Tony Giometti.
19. **New Business** – Hart
- a. Action Item: Daniel Robert (incoming chair)
    - i. Operations subcommittee to update MOP to include all 15 regions and consider other committees. Reflect correct number of voting members chair and vice chairs. Complete by August so that it can be emailed voted on before the fall meeting.
  - b. Updates to CTTC MOP. Any web broadcast mention needs to be updated to Tech Hour. These changes will need to be presented as a motion to Members Council.
    - i. **Motion (5)** To approve the CTTC MOP Tech Hour revisions.
    - ii. **Motion (5) passed.** Vote: unanimously passed
    - iii. Section 5A: Committee Membership
      - 1. This committee shall consist of 19 voting members, including a chair, two vice chairs, 14 regional vice chairs, one chapter program coordinator, and one ~~web broadcast~~ Tech Hour coordinator; in addition, 2 non-voting members, consisting of a BOD ex officio member, and a coordinating officer are assigned.

iv. Section 6: Duties of Committee Members

1. Duties of the ~~Web Broadcast~~ Tech Hour Coordinator

a. Duties of the ~~Web Broadcast~~ Tech Hour Coordinator shall include the following:

i. Manage ~~web broadcasts and webcasts~~ Tech Hours:

1. Select ~~topic topics~~ at ASHRAE Winter meeting for the following year's ~~broadcast/webcast~~ Tech Hours
2. Solicit ASHRAE Society's relevant committees for speaker recommendations and work with CTTC Staff liaison to organize a call for presenters for each topic
3. ~~Approve speaker's list at ASHRAE Annual meeting~~ The Tech Hour Ad Hoc will review submissions to select presenters
4. Contact speakers for acceptance
5. ~~Forward accepted speaker's list with contact information to CTTC Staff Liaison~~ Assist with review process
6. ~~Supervise Peer Review Committee selection;~~
  - a. ~~Three (3) persons selected by Technology Council with names provided by specified date to CTTC Staff Liaison~~
  - b. ~~Two (2) persons from organization related to the broadcast topic selected by CTTC Communications Coordinator~~
  - c. ~~Four (4) persons who are members of CTTC or chosen by CTTC~~
  - d. ~~All speakers for broadcast~~

b. Duties of the Staff Liaison

i. Coordinate logistics, publicity, program, ~~registration,~~ and reporting for CTTC ~~Satellite Broadcasts/Webcasts~~ Tech Hours.

v. Section 7: Subcommittees

1. Executive Subcommittee:

a. Consists of the chair, first and second vice chairs, Programs Coordinator, ~~Web Broadcast~~ Tech Hour Coordinator, and the BOD ExO.

2. Operations Subcommittee:

a. Administer ~~satellite broadcasts/webcasts~~ Tech Hours.

c. Update to the ASHRAE Rules of the Board (ROB). The web broadcast mention needs to be updated to Tech Hour. This change will need to be presented as a motion to Members Council and will then be passed onto the Board and Society Rules Committee.

i. 2.403 CHAPTER TECHNOLOGY TRANSFER COMMITTEE

1. 2.403.002 MEMBERSHIP

a. 2.403.002.01 Composition

The members of this committee are as follows

A. Voting membership shall consist of a chair, two (2) vice-chairs, one (1) representative from each region who serves as Regional Vice Chair, one (1) chapter programs coordinator, and one (1) ~~web broadcast~~ Tech Hour coordinator

20. **Change of Chair** – Hart/Simonsen

a. Recognition of Outgoing Members

- b. 2020-21 MBOs – Simonsen
  - c. Appointment of 2020-21 Subcommittee and Mentors – Simonsen
21. **Next Meeting** – January 22-23, 2021 – Chicago, IL
22. **Adjournment**

**CTTC Member Services Subcommittee Agenda**  
**Friday, June 19, 2020 – 10:00-12:00pm – GotoMeetings**

**Thursten Simonsen, Chair**

**Heric Holmes**  
**Peter Sudbeck**  
**Charles Bertuch**  
**Daniel Redmond**  
**Carl Schultz**

**Russell Pratt**  
**Kevin Blankemeier**  
**Jeffrey Gilbeaux**  
**Andrew Reilman**

- 1. Status of Assigned Action Items**
- 2. Distinguished Lecturer Program**
  - a. 2020-21 DL Formula/Allocations
  - b. DL Mixer – Chicago
  - c. DL Orientation Conference Calls
- 3. Technology Awards**
- 4. CTTC Awards**
- 5. Old Business**
- 6. New Business**
  - a. DL Program / Poll Everywhere - Andy & Mohammad taking lead of the discussion
    - i. consideration for a motion to the full committee to approve.

**CTTC Operations Subcommittee Agenda**  
**Friday, June 19, 2020 – 10:00-12:00pm – GotoMeetings**

**Mohammad Al Tassi, Chair**

<b>Steve Piccolo</b>	<b>David Ballard</b>
<b>Andrew Babler</b>	<b>Walter Lenzi</b>
<b>Serafin Grana</b>	<b>Renjie Jerry Huang</b>
<b>Christopher Adams</b>	<b>Ahmad Saleh Nour</b>
<b>Daniel Robert</b>	

1. **Status of Assigned Action Items**
2. **Tech Hour**
3. ***Chapter Notes* Newsletter**
4. **PAOE**
5. **Old Business**
6. **New Business**



**CTTC Executive Subcommittee Agenda**  
**Saturday, June 20, 2020 – 7:00-8:00am – GotoMeetings**

1. **Call to Order** – Hart
2. **Operations Subcommittee Report** – Al Tassi
3. **Member Services Subcommittee Report** – Simonsen
4. **Review of Committee Financial Statement** – Hart
5. **Old Business** – Hart
6. **New Business** – Hart
7. **Additional Activities**
  - a. Members Council – Thursday, June 25 from 9:00am-1:00pm – GotoMeeting
8. **Attachments**
  - a. 2019-2020 MBOs
  - b. 2020-2021 MBOs
  - c. Committee Assignments

Management by Objectives  
Chapter Technology Transfer Committee  
ASHRAE Society Year 2019-2020  
Nathan Hart, Chair

MBO	Status	Due Date	Assigned To	MBO Comments
<p>1. RVCs to coordinate with chapter programs chairs to conduct a minimum of three (3) Indoor Environmental Quality (IEQ) focused meetings per Region over the society year. This equates to a minimum of 45 IEQ themed presentations over the 19-20 society year.</p>	Open	June 2020	All RVCs	<p>ASHRAE Strategic Plan item 2 is a greater focus on IEQ over the next 5 years. Most regions have between 6 and 20+ chapters that conduct at least 8 meetings per year. This equates to only 7% or less of the overall meetings in a region (less than 1 per chapter) that need to be related to IEQ. This is a very attainable goal and will help fulfill Strategic Plan items 2 and 4 while providing greater member benefits.</p>
<p>2. All RVCs to work with their DRC, RMCR, Regional planning committee, and nominating committee to identify and implement a Regional CTTC RVC committee comprised of a minimum of 3 members. Preferably, the committee would consist of the current RVC, past RVC and 1-2 potential future RVCs.</p>	Open	December 2019	All RVCs	<p>There has been an issue in many regions with identifying future candidates for a RVC position and likewise some uncertainty from incoming RVCs as to their responsibilities on the committee. Having a regional CTTC RVC committee will help retain outgoing knowledge and prepare future RVCs for the responsibilities of this position while providing the current RVC additional resources to help share the work load of this position and the many associated responsibilities.</p> <p>This aligns with ASHRAE Strategic Plan item 3 and 4 which is organizational streamlining and improve chapter engagement, capacity and support.</p>

<p>3. RVCs to visit the three chapters in their region struggling the most. This intended to be an in-person visit, but if time and cost are an issue, a minimum of three additional phone calls (per chapter) to the CTTC or Programs chair for the struggling chapter can substitute.</p>	<p>Open</p>	<p>March 2020</p>	<p>All RVCs</p>	<p>One of the items that was highlighted through the Ad Hoc committee responsible for last year's MBO No. 1 was that it is difficult to get good communication from struggling chapters and additional electronic communication does not seem to be addressing the issues. The best way to make sure that the Region understands the issues the struggling chapters are facing and help them overcome these issues is to meet with them in person.</p> <p>This supports Strategic Plan Item 4 – Improve chapter engagement, capacity and support.</p>
<p>4. Operations Sub-Committee and Web Broadcast Sub-Committee to establish three webcast topics, dates and formats for the new webcast series. These committees shall assign a minimum of three (3) different members from Operations and ExCom to be responsible for each of the three webcasts for a total of nine (9) members involved.</p>	<p>Open</p>	<p>October 2019</p>	<p>Operations Sub-Committee &amp; Web Broadcast SubCommittee</p>	<p>The web broadcast has been a good conduit to disseminate information to the membership for the past 10+ years. The previous format has reached a point where it is not economically feasible to continue for the cost per viewer. A new format was tried this year and did not receive any additional traction. It was felt that multiple smaller webcasts throughout the year would provide better benefit with less production cost. However, to accomplish this will require more committee member involvement to spread out the responsibility for multiple webcasts.</p> <p>This supports Strategic Plan Items 3 and 4 – Organizational streamlining and improved chapter engagement.</p>
<p>5. Work with our international members to have a minimum of one ASHRAE Technology Award submission from Region VIII (Mexico), Region XII (South America), Region XIII, Region XIV, as well as, Region-at-Large for a minimum of 5 total from outside North America.</p>	<p>Open</p>	<p>June 2020</p>	<p>All RVCs</p>	<p>International submissions to this award have been low for a number of years and this is an ongoing commitment of the committee to try and increase participation in these awards from engineers and owners outside North America. RVCs to work with CRC award recipients to submit for Society Awards.</p> <p>This supports Strategic Plan Initiative 1, 2 and 4: Resilient Buildings, IEQ and Improve Chapter Engagement.</p>

<p>6. Submit 3 Applications for each of the Dan Mills Chapter Programs Award and the Donald A. Siller Refrigeration Award</p>	<p>Open</p>	<p>September 2019</p>	<p>All RVCs</p>	<p>The Dan Mills Program Award recognizes the best programs chair in the society which helps improve chapter engagement by acknowledging future chapter and society leaders. This supports Strategic Plan Item 4.</p> <p>The Donald Siller Refrigeration Award recognizes outstanding refrigeration projects and aligns with Strategic Plan items 1 and 2 – Resilient buildings and IEQ.</p>
<p>7. Full Sub-Committees (Operations and Member Services) to have individual conference calls mid-way between each meeting – total 2 per year per full subcommittee</p>	<p>Open</p>	<p>November 2019 &amp; March 2020</p>	<p>Member Services &amp; Operations</p>	<p>This was something that our previous chair, Mr. Mehboob, initiated between the summer and winter meetings last year. This has helped to increase communication and maximize volunteer time and effort. This aligns with ASHRAE strategic Plan item 3.</p>

Management by Objectives  
Chapter Technology Transfer Committee  
ASHRAE Society Year 2020-2021  
Thursten Simonsen, Chair

MBO	Status	Due Date	Assigned To	MBO Comments
<p>1. RVCs to coordinate with chapter program chairs to continue hosting a full chapter year of monthly meetings and programs, whether in-person or virtually as local and regional conditions dictate. RVCs and chapter program chairs to promote flexibility in responding to local ordinances and regulations related to the global pandemic while still engaging with chapter members in educational programs throughout the year.</p>	Open	June 2021	All RVCs	<p>ASHRAE Strategic Plan Goal 2 promotes maximizing member value and engagement, including through the leveraging of technology. The impacts of the global pandemic have brought immediate reductions to inperson education and technology transfer; however CTTC is in a prime position, through chapter programs, to continue promoting education and programs to chapter members.</p>
<p>2. Each RVC to work with chapter programs chairs to identify a minimum of five (5) organizations (i.e. local or regional councils, sustainability organizations, city or state energy efficiency organizations, or similar organizations) – and set up inperson or virtual introductory meetings to promote ASHRAE’s essential knowledge and resources for a sustainable, high-performance built environment.</p>	Open	June 2021	All RVCs	<p>This aligns with ASHRAE Strategic Plan Goal 1 – and promotes local and regional engagement with organizations and councils that may align with ASHRAE’s base of knowledge and expertise and drive positive economic, environmental, and social impact through innovation in building design and operations.</p>

<p>3. CTTC Webcast Ad Hoc Committee and RVCs continue to develop the ASHRAE Tech Hour program to deliver multiple relevant and innovative tech hour programs during the 2020-21 society year. Goal to develop and publish a minimum of three (3) tech hour programs despite the limitations posed by the global pandemic, and to fully engage the ASHRAE marketing initiative for the ASHRAE Tech Hour.</p>	<p>Open</p>	<p>May 2021</p>	<p>All RVCs and Web Broadcast SubCommittee</p>	<p>In 2019-20 CTTC rebranded the ASHRAE Webcast as the ASHRAE Tech Hour and posted two programs. Development has halted due to global pandemic restrictions. Tech Hour programs must continue development in a manner to accommodate the travel and social distancing concerns of Covid-19.</p> <p>This supports Strategic Plan Goal 3 – Optimize ASHRAE’s Organizational Structure to Maximize Performance</p>
<p>4. RVCs to coordinate with chapter program chairs to schedule distinguished lecturer virtual presentations to each chapter during this society year. The global pandemic has curtailed travel; however with technology distinguished lecturers may continue to present to chapters. The goal is to have all allocated DL visits schedule by December 2020 as would occur during a typical chapter year, with chapters taking full advantage of technology to deliver virtual programs as needed and required.</p>	<p>Open</p>	<p>December 2020</p>	<p>DL Program Ad Hoc and RVCs</p>	<p>The DL program has been a consistent method of transferring ASHRAE’s depth of knowledge and resources to local and regional membership through technical program. RVC’s shall work to continue full utilization of the DL program during the society year, even though most or nearly all of the programs must be delivered through virtual meeting technology.</p> <p>This supports Strategic Plan Items 3 and 4 – Organizational streamlining and improved chapter engagement.</p>

<p>5. Work with all RVCs to increase the number of Technology Award submissions, including a minimum of one ASHRAE Technology Award submission from Region VIII (Mexico), Region XII (South America), Region XIII, Region XIV, and Region-at-Large for a minimum of 5 total from outside North America.</p>	<p>Open</p>	<p>June 2020</p>	<p>All RVCs</p>	<p>International submissions to this award have been low for a number of years and this is an ongoing commitment of the committee to try and increase participation in these awards from engineers and owners outside North America. RVCs to work with CRC award recipients to submit for Society Awards.</p> <p>This supports Strategic Plan Initiative 1, 2 and 4: Resilient Buildings, IEQ and Improve Chapter Engagement.</p>
<p>6. Full Sub-Committees (Operations and Member Services) to have individual conference calls mid-way between each meeting – total 2 per year for each of the CTTC sub-committees</p>	<p>Open</p>	<p>November 2019 &amp; March 2020</p>	<p>Member Services &amp; Operations</p>	<p>This was something that our previous chairs, Farhan Mehboob and Nathan Hart, initiated and continued over the past two years. This has helped to increase communication and maximize volunteer time and effort. This aligns with ASHRAE strategic Plan item 3 – Organizational Streamlining.</p>

**2020-2021  
CHAPTER TECHNOLOGY TRANSFER COMMITTEE ASSIGNMENTS  
6/13/2020**

**OPERATIONS SUBCOMMITTEE**

**Daniel Robert – CHAIR**

Jeffrey Gilbeaux  
Christopher Adams  
Elizabeth Zakelj  
John Constantinide  
Renjie Jerry Huang  
Ahmad Saleh Nour  
Heric Holmes

<p><b>CTTC WEBCAST AD HOC COMMITTEE</b></p> <p><b>Heric Holmes – Chair</b> Thursten Simonsen Mohammad Al Tassi Daniel Robert Bert Phillips John Constantinede *Presenters</p>	<p><b>PAOE</b></p> <p><b>Daniel Robert – Chair</b> Christopher Adams Ahmad Saleh Hour Jeffrey Gilbeaux</p>
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**MEMBER SERVICES SUBCOMMITTEE**

**Mohammad Al Tassi – CHAIR**

Charles Bertuch  
Daniel Redmond  
Grant Page  
Peter Sudbeck  
Russell Pratt  
Kevin Blankemeier  
Janice Peterson  
Mahroo Eftekhari  
Andrew Reilman

**Distinguished Lecturer Program**

**Andrew Reilman – Chair**

Peter Sudback  
Charles Bertuch  
Daniel Redmond  
Janice Peterson



## CTTC AWARDS – SELECTION COMMITTEES

<b>DAN MILLS AWARD</b>  <b>Charles Bertuch, Chair</b> Peter Sudbeck Daniel Redmond	<b>DONALD A. SILLER REFRIGERATION AWARD</b>  <b>Russell Pratt, Chair</b> Peter Sudbeck Mahroo Eftekhari
<b>CHAPTER PROGRAM STAR</b>  <b>Kevin Blankemeier, Chair</b> Janice Peterson Grant Page	

## TECHNOLOGY AWARDS JUDGING PANEL

Member	Position
Andrew Reilman	Chair
Wei Dong (Bill) Wang	Region XIII Representative
Charles Bertuch	Region I Representative
Robert Kilpatrick	Region II Representative
Bert Phillips	Region XI Representative
Oswaldo de Siqueira Bueno	Region XII Representative
John Harrod	Technology Council Representative
Heric Holmes	CTTC Chair's Choice

## TECHNICAL COMMITTEE SECTION LIAISONS AND POSITION ALIAS

TC Section	CTTC Member	Position Alias
Chair	Thursten Simonsen	<a href="mailto:cttcchair@ashrae.net">cttcchair@ashrae.net</a>
Vice Chair	Mohammad Al Tassi	<a href="mailto:cttcv1@ashrae.net">cttcv1@ashrae.net</a>
Vice Chair	Daniel Robert	<a href="mailto:cttcv2@ashrae.net">cttcv2@ashrae.net</a>
TC Section 1	Charles Bertuch	<a href="mailto:cttc1@ashrae.net">cttc1@ashrae.net</a>
TC Section 2	Daniel Redmond	<a href="mailto:cttc2@ashrae.net">cttc2@ashrae.net</a>
TC Section 3	Jeffrey Gilbeaux	<a href="mailto:cttc3@ashrae.net">cttc3@ashrae.net</a>
TC Section 4	Christopher Adams	<a href="mailto:cttc4@ashrae.net">cttc4@ashrae.net</a>
TC Section 5	Arunabha Sau	<a href="mailto:cttc5@ashrae.net">cttc5@ashrae.net</a>
TC Section 6	Elizabeth Zakelj	<a href="mailto:cttc6@ashrae.net">cttc6@ashrae.net</a>
TC Section 7	Grant Page	<a href="mailto:cttc7@ashrae.net">cttc7@ashrae.net</a>
TC Section 8	Peter Sudbeck	<a href="mailto:cttc8@ashrae.net">cttc8@ashrae.net</a>
TC Section 9	Russell Pratt	<a href="mailto:cttc9@ashrae.net">cttc9@ashrae.net</a>
TC Section 10	Kevin Blankemeier	<a href="mailto:cttc10@ashrae.net">cttc10@ashrae.net</a>

## COUNCIL/COMMITTEE LIAISONS

<b>Members Council</b>	Thursten Simonsen
<b>Members Council PAOE Subcommittee</b>	Daniel Robert

## MENTORS

<b>Incoming CTTC Member</b>	<b>Mentor</b>
Grant Page	Thursten Simonsen
Mahroo Eftekhari	Mohammad Al Tassi
Arunabha Sau	Daniel Robert
Elizabeth Zakelj	Heric Holmes
Janice Peterson	Andrew Reilman
John Constantinide	Christopher Adams

## AD HOC COMMITTEES

### **Regional Statistics Ad Hoc**

Charles Bertuch, Chair  
Kevin Blankemeier Russell Pratt

### **Online Chapter Programs Ad Hoc**

Heric Holmes, Chair  
Daniel Redmond  
John Constantinide

### **Online DL Content Form Ad Hoc**

Daniel Redmond, Chair  
Heric Holmes  
Andrew Reilman