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
Carri 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

*Incoming 20-21 Members

**Principal Approved Motions**

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

**Action Items**

<table>
<thead>
<tr>
<th>No. – Pg.</th>
<th>Responsibility</th>
<th>Summary of Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – 4</td>
<td>Staff</td>
<td>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.</td>
</tr>
</tbody>
</table>
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](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. PollEV 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
   c. 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         Russell Pratt  
Peter Sudbeck        Kevin Blankemeier  
Charles Bertuch      Jeffrey Gilbeaux  
Daniel Redmond       Andrew Reilman  
Carl Schultz

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

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

<table>
<thead>
<tr>
<th>MBO</th>
<th>Status</th>
<th>Due Date</th>
<th>Assigned To</th>
<th>MBO Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>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.</td>
<td>Open</td>
<td>June 2020</td>
<td>All RVCs</td>
</tr>
<tr>
<td>2.</td>
<td>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.</td>
<td>Open</td>
<td>December 2019</td>
<td>All RVCs</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Start Date</th>
<th>End Date</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>March 2020</td>
<td></td>
<td>All RVCs</td>
</tr>
</tbody>
</table>

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.

This supports Strategic Plan Item 4 – Improve chapter engagement, capacity and support.

### 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.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Start Date</th>
<th>End Date</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open</td>
<td>October 2019</td>
<td></td>
<td>Operations Sub-Committee &amp; Web Broadcast SubCommittee</td>
</tr>
</tbody>
</table>

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.

This supports Strategic Plan Items 3 and 4 – Organizational streamlining and improved chapter engagement.

### 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.

<table>
<thead>
<tr>
<th>Committee</th>
<th>Start Date</th>
<th>End Date</th>
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<tr>
<td>Open</td>
<td>June 2020</td>
<td></td>
<td>All RVCs</td>
</tr>
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</table>

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.

This supports Strategic Plan Initiative 1, 2 and 4: Resilient Buildings, IEQ and Improve Chapter Engagement.
6. **Submit 3 Applications for each of the Dan Mills Chapter Programs Award and the Donald A. Siller Refrigeration Award**

<table>
<thead>
<tr>
<th>Open</th>
<th>September 2019</th>
<th>All RVCs</th>
</tr>
</thead>
</table>

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.

The Donald Siller Refrigeration Award recognizes outstanding refrigeration projects and aligns with Strategic Plan items 1 and 2 – Resilient buildings and IEQ.

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**

| Open | November 2019 & March 2020 | Member Services & Operations |

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.
<table>
<thead>
<tr>
<th>MBO</th>
<th>Status</th>
<th>Due Date</th>
<th>Assigned To</th>
<th>MBO Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Open</td>
<td>June 2021</td>
<td>All RVCs</td>
<td>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.</td>
</tr>
<tr>
<td>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.</td>
<td>Open</td>
<td>June 2021</td>
<td>All RVCs</td>
<td>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.</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Open</th>
<th>May 2021</th>
<th>All RVCs and Web Broadcast SubCommittee</th>
</tr>
</thead>
</table>
| 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.

   This supports Strategic Plan Goal 3 – Optimize ASHRAE’s Organizational Structure to Maximize Performance.

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.

<table>
<thead>
<tr>
<th>Open</th>
<th>December 2020</th>
<th>DL Program Ad Hoc and RVCs</th>
</tr>
</thead>
</table>
| 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.

   This supports Strategic Plan Items 3 and 4 – Organizational streamlining and improved chapter engagement.
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<tr>
<td>5.</td>
<td>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.</td>
<td>Open</td>
<td>June 2020</td>
</tr>
<tr>
<td>6.</td>
<td>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</td>
<td>Open</td>
<td>November 2019 &amp; March 2020</td>
</tr>
</tbody>
</table>
OPERATIONS SUBCOMMITTEE

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

CTTC WEBCAST AD HOC COMMITTEE
Heric Holmes – Chair
Thursten Simonsen
Mohammad Al Tassi
Daniel Robert
Bert Phillips
John Constantinide
*Presenters

PAOE
Daniel Robert – Chair
Christopher Adams
Ahmad Saleh Hour
Jeffrey Gilbeaux

MEMBER SERVICES SUBCOMMITTEE

Mohammad Al Tassi – CHAIR
Charles Bertuch
Daniel Redmond
Grant Page
Peter Sudbeck
Russell Pratt
Kevin Blankemeier
Janice Peterson
Mahroo Eftekhar
Andrew Reilman

Distinguished Lecturer Program

Andrew Reilman – Chair
Peter Sudbeck
Charles Bertuch
Daniel Redmond
Janice Peterson
CTTC AWARDS – SELECTION COMMITTEES

<table>
<thead>
<tr>
<th>Award</th>
<th>Chair</th>
<th>Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan Mills Award</td>
<td>Charles Bertuch</td>
<td>Peter Sudbeck</td>
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<tr>
<td></td>
<td></td>
<td>Daniel Redmond</td>
</tr>
<tr>
<td>Donald A. Siller Refrigeration Award</td>
<td>Russell Pratt</td>
<td>Peter Sudbeck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mahroo Eftekhari</td>
</tr>
<tr>
<td>Chapter Program Star</td>
<td>Kevin Blankemeier</td>
<td>Janice Peterson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grant Page</td>
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TECHNOLOGY AWARDS JUDGING PANEL

<table>
<thead>
<tr>
<th>Member</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andrew Reilman</td>
<td>Chair</td>
</tr>
<tr>
<td>Wei Dong (Bill) Wang</td>
<td>Region XIII Representative</td>
</tr>
<tr>
<td>Charles Bertuch</td>
<td>Region I Representative</td>
</tr>
<tr>
<td>Robert Kilpatrick</td>
<td>Region II Representative</td>
</tr>
<tr>
<td>Bert Phillips</td>
<td>Region XI Representative</td>
</tr>
<tr>
<td>Oswaldo de Siqueira Bueno</td>
<td>Region XII Representative</td>
</tr>
<tr>
<td>John Harrod</td>
<td>Technology Council Representative</td>
</tr>
<tr>
<td>Heric Holmes</td>
<td>CTTC Chair’s Choice</td>
</tr>
</tbody>
</table>

TECHNICAL COMMITTEE SECTION LIAISONS AND POSITION ALIAS

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

<table>
<thead>
<tr>
<th>Members Council</th>
<th>Thursten Simonsen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members Council PAOE Subcommittee</td>
<td>Daniel Robert</td>
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MENTORS

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