

**AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.
1791 Tullie Circle, N.E./Atlanta, GA 30329
404-636-8400
TC/TG/TRG MINUTES COVER SHEET**

(Minutes of all TC/TG/TRG Meetings are to be distributed to all persons listed below within 60 days following the meeting.)

TC/TG/TRG NO 8.1 DATE January 27, 2015

TC/TG/TRG TITLE Positive Displacement Compressors

DATE OF MEETING January 27, 2015 LOCATION Chicago, IL

MEMBERS PRESENT	YEAR APPTD	MEMBERS ABSENT	YEAR APPTD	EX-OFFICIO MEMBERS AND ADDITIONAL ATTENDANCE
Scott MacBain	2014	Dr. Jason Hugenroth	2014	See Attachment 1
Andrew Welch	2013	Alex Leyderman	2011	
James Douglas	2011	Heinz Juergensen (MNQ)	2013	
Michael Wegenka	2014	Doug Collings	2012	
Dr. Georgi Kazachki	2014	David Bergeron	2013	
Rick Hall	2013			
Dr. Michael Perevozchikov	2014			
Dr. Margaret Mathison	2013			

DISTRIBUTION

TC:	All members of TC8.1
TAC Section Head:	Stephen Duda
TAC Chair:	William McQuade
All Committee Liaisons As Shown On TC/TG/TRG Rosters:	David Yasher– Section 8 Research Liaison Michael Patton – Systems Handbook Chair Rick Larson – Standards Jim Tauby – SPLS liaison Francis Mills – Special Pubs Keith Reihl – Technology Transfer Committee
Manager Of Standards Manager Of Research & Technical Services	Stephanie Reiniche Mike Vaughn

Call To Order - Scott MacBain

Scott MacBain called the meeting to order at on Tuesday January 27, 2015 in Montrose 6 of the Palmer House. A sign-in sheet was circulated and is included as Attachment 1 to these minutes.

Establishment of a Quorum – Scott MacBain

A roll call was taken. Voting members present were Scott MacBain, Drew Welch, Jim Douglas, Mike Wegenka, Michael Perevozchikov, Georgi Kazachki, Rick Hall, and Margaret Mathison. With 8 of 12 voting members present, a quorum was established.

Open Committee Positions – Scott MacBain

Margaret Mathison was nominated and agreed to take the role of Vice Chair. Drew Welch was nominated and agreed to take the role of Secretary. Craig Bradshaw was nominated and agreed to take the role of Webmaster.

Approval of the Seattle Minutes – Scott MacBain

An amendment was proposed to correct the wording of the description of the status of SPC 23.1 “with” to “without” on line 6 of that paragraph. Drew Welch moved to accept the Seattle minutes as amended and Jim Douglas seconded the motion. The motion passed unanimously. (6-0-1, 5 absent and the Chair not voting). It was noted that the New York minutes from January were approved by e-mail ballot 9-0-3.

From the Chair’s Breakfast – Scott MacBain

- Nominations for the Hightower Award, meant to reward an outstanding individual for TC leadership and contributions. Scott MacBain to review if Rick Hall has previously won and nominate him if he has not.
- TC 8.11 won the award for Outstanding TC in section 8. The award is based on a points and a subjective analysis of TC activity. TC 8.1 was ineligible during the past year because we failed to make quorum in Seattle.
- The research award was presented to Ian Walker of TC 4.3. If anyone has nomination suggestions, please provide that to Scott or Margaret.
- The committee is reminded that we are all subject to the ASHRAE Code of Ethics available at <https://www.ashrae.org/about-ashrae/ashrae-code-of-ethids>, and reminded members to respect confidentiality and IP among all members.
- ASHRAE has piloted electronic meetings (TCs 8.4 and 8.8 participated in beta mode in Chicago). For the summer meeting in Atlanta, there will be the capability to hold electronic and physical meetings. Let Scott, Margaret, or Drew know if you are interested in attending electronically.
- ASHRAE CEC is seeking track suggestions for the Summer 2016 meeting in St. Louis.
- ASHRAE has added an “employment discipline” to the bios. While this is not new, ASHRAE continues to request that members update this information.
- If anyone is interested in becoming a Corresponding Member of TC 8.1, please provide your name and ASHRAE member number to Scott, Margaret, or Drew.

Liaisons

Handbook Liaison – Scott Fisher

The refrigeration chapter is not due until 2018, but recommends starting early. Will follow up with Alex Leyderman.

Standards – Rick Hall

TC 8.1 is the responsible for four separate standards.

- SPC 23.1-2010R, “Methods of Testing For Rating the Performance of Positive Displacement Refrigerant Compressors and Condensing Units that Operate at Subcritical Temperatures of the Refrigerant.” Margaret Mathison is the Chair of this revision committee and revision work is progressing. New members and visitors are always welcomed.
- SPC 23.2P, “Methods of Test For Performance Rating Positive Displacement Refrigerant Compressors That Operate at Supercritical Temperatures of the Refrigerant.” This new standard was published in 2014. Congratulations to Scott MacBain and his team.
- Standard 41.9-2010, “Standard Methods for Volatile Refrigerant Mass Flow Measurement Using Calorimeters.” Michael Perevozchikov is the Chair of this revision committee and revision work is progressing. New members and visitors are always welcomed.
- Standard 41.10-2013, “Standard Methods for Refrigerant Mass Flow Measurement Using Flowmeters.” This standard was published in 2013 and is due for periodic maintenance in January 2016.

Program - Erik Anderson

- Chicago Seminal 51: “Energy Efficiency of Novel and Conventional Compressors using Low-GWP Refrigerants” was held immediately before the committee meeting. Erik discussed the conflict between the seminar and the TC meeting with ASHRAE staff. Erik thanks Craig Bradshaw for organizing and chairing the session and all of the presenters.
- Seminar, Workshop and Forum Session Proposals were due 2/9, 2015
- Conference website for Atlanta annual meeting: <http://www.ashrae.org/atlanta/>
- Share any program ideas with Erik
- Georgi Kazachki moved to resubmit co-sponsorship of previously submitted seminars for Atlanta, Michael Perevozchikov seconded. The motion passed unanimously. (8-0-0, 4 absent and the Chair voting)
 - Best Practices for Refrigeration and Air Conditioning
 - Retrofit or Not? Life-Cycle Strategy for Systems with R-22 and High-GWP Refrigerants
- Georgi Kazachki proposed a new Seminar for Orlando “Compression Challenges for Low GWP Refrigerants” to be chaired by Georgi with Margaret Mathison, Craig Bradshaw, Eckhard Groll, and Vikrant as speakers. Jim Douglas moved to submit this seminar, Mike Wegenka seconded. The motion passed unanimously (8-0-0, 4 absent and the Chair voting). Scott MacBain suggested discussion with the track chair to improve probability of approval.
- Session chairs have complained of inconsistencies in ASHRAE software for presentations and processing of approval. Craig Bradshaw shared his experience with the session conducted in Chicago.

Research – Michael Perevozchikov

- Michael reported the status of ASHRAE research:
 - 4 RTARs were evaluated, 3 conditionally accepted
 - 8 Work statements evaluated
 - 59 Active research projects (\$11 million)
 - 5 Projects started, 15 new projects approved
 - ASHRAE has more research money than new research proposals
- Please bring any suggestions for new RTARs or improvements to the RTAR process to Michael Perevozchikov
- We discussed potential of co-sponsoring a work statement regarding testing to understand the modeling of heat dissipation in motors. The RTAR was found to be incomplete and inadequate time was available

for it's review to bring co-sponsorship to a vote. Georgi Kazachki believes that the goals of the RTAR are overly ambitious and that the researcher may have difficulty acquiring potentially proprietary constructed samples.

- If you have ideas or an interest in the research subcommittee, please contact Michael Perevozchikov or attend the subcommittee meeting in future meetings.

Section Head – Stephen Duda

E-mail Sh8@ashrae.net with any questions for the section head.

Handbook - Scott MacBain for Alex Leyderman

- Chapter 38 was approved by letter ballot.
- Chapter 42, “Liquid Chilling Systems” is awaiting information from Scott MacBain on scroll chillers.

Membership – Scott MacBain for Kelly Chandler

- As established earlier, we currently have 12 voting members with few rolling off until 2017.

Website – Drew Welch / Craig Bradshaw

- We're currently behind on updating the website for minutes and agenda. Drew has supplied the connection details to Craig to take control of the site.
- Craig will investigate posting presentations from Chicago seminar to committee website for those that couldn't attend.

Old Business – Scott MacBain

- No old business was re-introduced.

New Business - Scott MacBain

- No new business was introduced.

Motion to Adjourn - Scott MacBain

- No further business before the TC, a motion was offered and seconded to adjourn the meeting.

Attachment 1 ATTENDANCE LIST

TC 8.1 Attendance List – Chicago

Name	Company	Status
Scott MacBain	Carrier UTC	Chair/VM
Margaret Mathison	Marquette University	Vice Chair/VM
Andrew Welch	Johnson Controls	Secretary/VM
Rick Hall	Hall Consultants, LLC	Standards/VM
Michael Perevozchikov	Emerson Climate Tech.	Research/VM
Erik Anderson	Anderson Engineering	Programs/CM
Craig Bradshaw	Torad Engineering	Webmaster/CM
Jim Douglas	Imagineering and More	VM
Georgi Kazachki	DRS-ESI/Cryotherm	VM
Mike Wegenka	Trane	VM
Scott Fisher	State Farm Mutual	Handbook Liaison
Steve Duda	Ross and Barzini	Section 8 Head
Bruce Griffith	Johnson Controls	CM
Satheesh Kulankara	Johnson Controls	CM
Derek Kultgen	CPI Fluid Engineering	CM
Paul Flannigan	Emerson Climate Tech.	CM
Hermann Renz	Bitzer GmbH	CM
Eddie Rodriguez	Daiken Applied	CM
Steve Spletzer	Danfoss	CM
Eckhard Groll	Purdue University	CM
Michael Callan	Consulting Services Int'l	PCM
Greg Chilcote	Trane	PCM
Conner Hayes	Trane	Guest

Attachment 2: Code Of Ethics

ASHRAE Code of Ethics

(Approved by ASHRAE Board of Directors January 31, 2007)

As members of ASHRAE, we pledge to act with honesty, fairness, courtesy, competence, integrity and respect for others in our conduct.

Efforts of the Society, its members, and its bodies shall be directed at all times to enhancing the public health, safety and welfare.

Members and organized bodies of the Society shall be good stewards of the world's resources including energy, natural, human and financial resources

Our products and services shall be offered only in areas where our competence and expertise can satisfy the public need.

We shall act with care and competence in all activities, using and developing up to date knowledge and skills.

We shall avoid real or perceived conflicts of interest whenever possible, and disclose them to affected parties when they do exist.

The confidentiality of business affairs, proprietary information, intellectual property, procedures, and restricted Society discussions and materials shall be respected.

Each member is expected and encouraged to be committed to the code of ethics of his or her own professional or trade association in their nation and area of work.

Activities crossing national and cultural boundaries shall respect the ethical codes of the seat of the principal activity.