



ASHRAE Technical Committee 1.4

Agenda (Draft)

TC 1.4 Control Theory and Application

<http://tc14.ashraetcs.org/>

Tuesday, June 30, 2015 1:00 – 3:30 pm

Room 304

Atlanta, GA

TC1.4 Control Theory & Application	Tuesday 1:00-3:30p	304
TC 1.4 YEA	Sunday 2:30-3:00p	Executive Boardroom
TC 1.4 Control Components and Applications	Sunday 3:00-4:00p	Executive Boardroom
TC 1.4 Program	Sunday 4:00-5:30p	Executive Boardroom
TC 1.4 Education	Sunday 5:30-6:30p	Executive Boardroom
TC 1.4 Research	Monday 2:15-4:15p	402
TC 1.4 Handbook	Monday 4:15-6:30p	402
TC 1.4 Executive	Tuesday 7:00-8:00a	311
<i>Seminar 6: BAS Data Analysis in Campuses</i>	Sunday 11:00a-12:30p	Grand Ballroom C
<i>Seminar 17: What's New with Guideline 13? Specifying Building Automation Systems</i>	Sunday 1:00-3:00p	Salon E
<i>Seminar 65: ASHRAE RP-1455 and GPC-36: Standardized Best of Class Sequences for HVAC Systems</i>	Wednesday 11:00a-12:30p	Salon A/B

1) Call to Order

2) Introduce Members, Guests, and Liaisons

3) Roll Call (Quorum)

4) Present scope of TC 1.4

- a) ASHRAE Technical Committee 1.4 is concerned with control theory, systems, and components (excluding refrigerant flow controls) for heating, ventilating, air conditioning, and refrigeration uses.

5) Approve agenda

- a) **Approved 5-0-0 CNV**

6) Approve minutes from previous meeting

- a) **Approved 5-0-0 CNV**

7) Announcements

- a) Section Meeting announcements
 - Reminder to look at the ASHRAE Code of Ethics
 - Each member should receive a letter from the president asking if you would like a letter thanking the member for their contribution to TC's.



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- ASHRAE is seeking reviewers for technical papers. Anyone interested should contact Chad Moore.

- b) TAC The Section 1 TAC liaison asked if there are any pressing issues. None were brought up.
- c) RAC Art G – research liaison provided an update. If we have anything orient to residential research, it will receive priority as part of one of ASHRAE's new strategic plant.
- d) YEA No representative in attendance

8) OLD BUSINESS

A) PROJECT COMMITTEE AND ONGOING RESEARCH REPORTS

- i) SSPC 135 (BACnet) –

No representative in attendance

- ii) SGPC 13 (Specifying DDC Systems) – Chariti Young
Meets Saturday 8:00a-12:00pm, Clark 3

Dave Kahn, the 2015 was published a month ago. It contains more information on networking and integration. There was a seminar to present the updates at the seminar.

- iii) GPC 36 (High Performance Sequences of Operation for HVAC Systems) –
Mark Hydeman

Steve Taylor provided an update. The group received unofficial review comments. Steve will be addressing

- iv) 1587-TRP (Control Loop Performance Assessment) – Steve Taylor
Steve Taylor provided an update. The PI requested a six month no cost extension to finish testing. Vote: 6-0-0

CO RFP for HVAC security (physical and cybersecurity) between ASHRAE and CIBSE. The first step will be a memorandum of understanding for the project scope.

(1) A vote of endorsement by TC 1.4 means that the TC will provide a volunteer

(2) Vote to support the cofounded ASHRAE / CIBSE study – 5-0-0 CNV

a) SUB-COMMITTEE REPORTS

- i) Executive – Chad Moore

ii) Control Components and Applications – Barry Bridges See subcommittee meeting minutes.

iii) Topics included using BAS data for mining energy efficiency opportunities, new project team collaboration strategies including “submittal parties”, IT networking and the Internet of Things, and tying irrigation controls into the building automation system.

iv) Program – Frank Shadpour- See subcommittee meeting minutes. Seminar 6 , Marcelo Acosta provided an update. The seminar featured how BAS data can be used to provide insight efficiency opportunities that would not be evident from normal review.



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Seminar ___, Chariti Young provided an update. The seminar featured updates to Guideline 17 on new sections covering networking and integration.

Contact TG-2, contact Jason Graw (sp?) for cosponsorship for security related seminars and contact Joe Z. for 7.5 for cosponsorship Smart Grid and FD&D.

- v) Education – Marcelo Acosta **See subcommittee meeting minutes.**
Marcelo has populated a table on contents on the Wikiversity site which he has created. A portion of the pages have content from Marcelo. Marcelo has requested that TC1.4 members review and update the Index of subjects. It can be accessed and edited directly from the Wiki page.
- vi) YEA – Joseph Kilcoyne **See subcommittee meeting minutes.**
Proposals for future recruitment include a pre-committee meeting technical session addressed to YEA members, local chapter presentations on TC's, and active networking during the TC conference networking event.
- vii) Handbook – Dave Kahn **See subcommittee meeting minutes.**
The update to the Fundamentals chapter is complete. The subcommittee made some minor updates during the meeting of the review document sent out 3 weeks previously. Dave made a motion to approve the Fundamentals Chapter for publication subject to minor edits. 5-0-0 CNV
TC 1.4 expressed their gratitude to Dave Kahn who is rolling off as Handbook Chair. Thanks Dave for all your great work and service to our committee.
- viii) Research – Kim Barker **See subcommittee meeting minutes.**
There was a forum on ASHRAE Research Process Efficiency. Kim Barker attended and provided her input.
Art G. will be rolling off as the RAC liaison. Professor Kato will be rolling on.
- ix) Standards – Steve Taylor **See subcommittee meeting minutes.**
Std 90.1 has limits for DOAS supply air reset strategy, the word “fan” was removed from the language which requires waterside economizers so that passive systems like chilled beams are now required to provide economizers.
- x) Webmaster – Garry Cole
Mike Pouchak provided an update in lieu of Garry. Mike is the current ECC chair. ASHRAE has adopted the use of Basecamp for file sharing. TC 1.4 now has a basecamp page. Mark Hydeman provided an overview of how he used Basecamp for the review comment response process for GPC 36. Ken Cooper put together a TC Website Redesign Guide. Also, ECC is trying to standardize the TC websites. TC 1.4 is one of the first to adopt the new template.

b) Committee Liaison Reports

- i) TC 1.5 (Computer Applications) – Mike Pouchak
- ii) TG 2 HVAC Security – Kim Barker
- iii) TC 5.6 (Control of Fire & Smoke) -



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- iv) TC 6.1 (Hydronic Systems) – Dave Kahn
- v) TC 6.7 (Solar Energy Utilization) – Gaylen Atkinson
- vi) TC 7.3 (Operations & Maintenance Management)
- vii) TC 7.5 (Smart Building Systems) – John House
Jen Win provided an update. 7.5 is organizing a research road map forum to discuss research needs.
- viii) TC 7.6 (Systems Energy Utilization)
- ix) TC 7.9 (Building Commissioning) – David Bornside
- x) TC 9.10 (Laboratory Systems) – Jim Coogan
- xi) TC 9.11 (Clean Rooms) – Jim Coogan
The Clean Room Design Guide has been updated and is now available to buy online.
- xii) SSPC 62.1 (Ventilation and Acceptable IAQ) – Len Damiano
There is a request from the SSPC to 1.4 for an appendix to 62.1 for a sample sequence of operations. Steve Taylor volunteered to do this.
- xiii) SSPC 90.1 (Energy Efficient Design of New Buildings) – Steve Taylor
- xiv) TC 1.6 (Terminology) – David Bornside
- xv) SGPC 0.2 & 1.2 (The Commissioning Process) – David Bornside
- xvi) SPC134 (Graphic symbols for HVAC systems) – David Bornside
- xvii) US TAG to ISO/TC 205 (Building Environmental Design)
- xviii) SPC 189 Design of High Performance Building – Bogi Setty
- xix) MTG.EAS – Energy-Efficient Air Handling Systems for Non-Residential Building: – Len Damiano.
This MTG was resolved last year.

c) Society Committees

9) New business

- a) Roster updates:
 - i) TC Leadership rolling on after St. Louis (6/16): Garry Cole (Chair)
 - (1) New voting members rolling on after Atlanta:
 - (2) New corresponding members rolling on after Atlanta:

10) Upcoming Deadlines

- a) For Orlando, FL January 23 – January 27, 2016
 - i) July 6, 2015 – Conference Papers due
 - ii) August 3, 2015 Conference Paper accept/reject notifications
 - iii) August 10, 2015 Seminar, Forum and Workshop proposals due
 - iv) August 21, 2015 Revised Conference Papers/Final Technical Papers due
 - v) August 28, 2015 Conference and Technical Paper final accept/reject notifications
 - vi) September 11, 2015 Seminar, Forum, Workshop accept/reject notifications
 - vii) **Orlando Conference Tracks**
 - Systems and Equipment



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- Fundamentals and Applications
- Design Build
- International Design
- Standards, Guidelines and Codes
- Cutting-Edge Technologies
- The Great Debate
- Modern Residential Systems

11) Next Meeting – Orlando, FL January 23 – January 27, 2016

12) Adjourn – Meeting Adjourned at 3:00pm. Motion to adjourn approved 6-0-0 CNV.