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**Agenda (Draft v.1)**

**SSPC-34: Designation & Safety Classification of Refrigerants**

Summer Conference, June 27, 2022

Hilton, MacDonald/Lismer (C)

**Virtual Meeting:** <https://ashrae.webex.com/ashrae/j.php?MTID=mb6ad7f97c1df60e555586acde30e3e12>

**Meeting number:** 2344 936 1360

**Meeting password:** 3UpcEPM4ey4

1. **CALL TO ORDER**
	1. ASHRAE Code of Ethics Review

*“Commitment to the ASHRAE Code of Ethics – 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 interests. (See full Code of Ethics:* [*https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics*](https://www.ashrae.org/about-ashrae/ashrae-code-of-ethics)*.)”*

* 1. ASHRAE Commitment to Care

*“The health and safety of all ASHRAE conference attendees is a top priority. Out of respect for our fellow attendees, we commit to wear masks indoors, monitor our health, seek medical attention if symptoms develop and adhere to all ASHRAE* [*Commitment to Care*](https://www.ashrae.org/file%20library/conferences/winter%20conference/commitment-to-care.pdf) *protocols. We are committed to the well-being of one another.”*

* 1. Introduction of Members and Guests
	2. SSPC 34 Main Committee Roster & Full Roster (attached is the full roster)



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| ***SSPC 34 Roster for 2021 – 2022*** |
| ***Producer/Refrigerant***  (4) | ***User/Systems***  (3) | ***User/Components*** (2) | ***General*** (6) |
| **Sarah Kim (2025)** **Vice Chair**  **D&N Subcommittee Chair**  | **Steve Kujak (2022) *Chair***  | **Marc Scancarello (2025)** | **Mark Olson (2022)** |
| **Gary Jepson (2023)** | **Sivakumar Gopalnarayanan (2023)** | **Brian Fricke (2025)** | **Andrew Kusmierz (2023)** |
| **Ankit Sethi (2025)** | **Chun-cheng Piao (2022)** |  |  **John Senediak (2022)** |
|  | **Julie Majurin (2024) *Flammability Subcommittee Chair*** |  | **Kenji Takizawa (2023)** |
|  |  |  | John Scott (2022)Consultant |
|  |  |  | Asbjorn Vonsild (2022)Consultant (NVM) |

* 1. Quorum determination

 out of 13 voting members present.

* 1. Chair/ASHRAE Announcements (Steve and Ryan)

Review/creation of Basecamp for Std 34

1. **AGENDA REVIEW**

Motion: Agenda approval

Discussion:

1. **MINUTES OF THE May 12th MEETING / TELECONFERENCES**
* *Review and approve minutes*
1. **MINUTES OF THE Las Vegas MEETING / TELECONFERENCES**
* *Review and approve minutes*
1. **ROSTER STATUS**

* 1. Current Full SSPC 34 membership information is found in ATTACHMENT 1 above.
* *NO ACTION: For information only*

*Proposed Roster for July 1 2022*

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| Interest Category | Present Number of Voting Members | Proposed Number of Voting Members |
| GENERAL | 4 | 4 |
| PRODUCER/REFRIGERANT  | 3 | 3 |
| USER/COMPONENTS  | 2 | 2 |
| USER/SYSTEMS  | 4 | 4 |
| **TOTAL** | **13** | **13** |

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| *Existing Member Changes and Reappointments* |

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| Member Name | Rec. Position | Rec. Voting Status | Interest | SubC | Term Start | Term End | Reason | Company/Employer | Notes |
| Kim, Sarah | Chair | PCVM | PRODUCER/REFRIGERANT  |  | July 1, 2022 | June 30, 2024 | 3 | Koura Global |  |
| *Current: VICE CHAIR; PCVM-PRODUCER/REFRIGERANT; FLAMMABILITY SUBCOMMITTEE; CHAIR, DESIGNATION AND NOMENCLATURE SUBCOMMITTEE; Voting Status: Voting* |
| Kobayashi, Tatsuro | Member | PCVM | USER/SYSTEMS  | CHAIR, TOXICITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | 5 | Daikin US Corporation |  |
| *Current: PSVM-PRODUCER/REFRIGERANT; TOXICITY SUBCOMMITTEE; Voting Status: Non-Voting* |
| Kujak, Stephen | Member | PCVM | USER/SYSTEMS  |  | July 1, 2022 | June 30, 2026 | 1 | Trane Technologies |  |
| *Current: CHAIR; PCVM-USER/SYSTEMS; Voting Status: Voting* |
| Majurin, Julie | Vice Chair | PCVM | USER/SYSTEMS  | CHAIR, FLAMMABILITY SUBCOMMITTEE | July 1, 2022 | June 30, 2024 | 3 | AHRI |  |
| *Current: PCVM-USER/SYSTEMS; CHAIR, FLAMMABILITY SUBCOMMITTEE; Voting Status: Voting* |
| Olson, Mark Maxwell | Member | PCVM | GENERAL | FLAMMABILITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | 1 | UL LLC |  |
| *Current: PCVM-GENERAL; FLAMMABILITY SUBCOMMITTEE; Voting Status: Voting* |
| Piao, Chun-cheng  | Member | PSVM | USER/SYSTEMS  | FLAMMABILITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | 5 | Daikin Open Innovation Lab Silicon Valley |  |
| *Current: PCVM-USER/SYSTEMS; FLAMMABILITY AND DESIGNATION AND NOMENCLATURE SUBCOMMITTEES; Voting Status: Voting* |
| Rusch, George M | Member | PSVM | GENERAL | TOXICITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | 1 |  |  |
| *Current: PSVM-GENERAL; TOXICITY SUBCOMMITTEE; Voting Status: Non-Voting* |
| Scott, John P | Consultant |  | GENERAL |  | July 1, 2022 | June 30, 2024 | 1 | Natural Resources Canada |  |
| *Current: CONSULTANT; Voting Status: Non-Voting* |
| Senediak, John | Member | PCVM | GENERAL | FLAMMABILITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | 1 | Interek |  |
| *Current: PCVM-GENERAL; FLAMMABILITY SUBCOMMITTEE; Voting Status: Voting* |
| Vonsild, Asbjorn Leth | Consultant |  | GENERAL |  | July 1, 2022 | June 30, 2024 | 4 | Vonsild Consulting ApS |  |
| *Current: CONSULTANT; Voting Status: Non-Voting* |

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| *New Members* |

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| Member Name | Rec. Position | Rec. Voting Status | Interest | SubC | Term Start | Term End | Company/Employer | Notes |
| Inamdar, Harshad V | Member | PSVM | USER/SYSTEMS  | DESIGNATION AND NOMENCLATURE SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | Rheem Manufacturing |  |
| Leehey, Morgan E | Member | PSVM | USER/SYSTEMS  | TOXICITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | Trane Technologies |  |
| Pokrovski, Konstantin | Member | PSVM | PRODUCER/REFRIGERANT  | FLAMMABILITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | Honeywell |  |
| Ravi, Gurunarayana | Member | PSVM | USER/SYSTEMS  | TOXICITY SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | Lennox International |  |
| Rydkin, Ivan | Member | PSVM | PRODUCER/REFRIGERANT  | CHAIR, DESIGNATION AND NOMENCLATURE SUBCOMMITTEE | July 1, 2022 | June 30, 2026 | Daikin America | Ivan to be Chair of DNS Subcomittee |

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| *Removal/Resignation* |

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| Member Name | Voting Status | Interest | Reason | Attachment |
| Leck, Thomas | PSVM | GENERAL | Roll-off |  |

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1. **PUBLICATION PUBLIC REVIEW DRAFTS**
	1. Addenda ac Addenda ac received comments. See attached



Action: Vote on respond to commentor.

* 1. No PPR actions/addenda have been posted to the ASHRAE website since Oct 1, 2021. Addenda ad, ae, and af are closing on June 26

Action: None Informational Only

1. **APPLICATIONS FOR REFRIGERANT DESIGNATION AND SAFETY CLASSIFICATION**

The PC reviews new and amended applications that are received by SSPC 34 members 30 days or more prior to first subcommittee meeting (9.1.3 Timing). Applications are reviewed in order that they are received (9.1.4 Precedence). The last distributed amendment or supplement to an application is used to determine review precedence.

* 1. R0113-21-05 for Zeotropic Refrigerant Blend R-1270/R600a (84.0/16.0) with tolerances (±2.0/±2.0) by mass % from Guogeng He on behalf of Huazhong University of Science and Technology.

Action: Vote on Designation and Classification

* 1. R0114-21-05 for Zeotropic Refrigerant Blend R-1270/R600a (38.0/62.0) with tolerances (+1.0, -2.0/+2.0, -1.0) from Guogeng He on behalf of Huazhong University of Science and

Action: Vote on Designation and Classification

* 1. R0117-21-05 for Zeotropic Refrigerant Blend R-290/600a/600 (55.0/15.0/30.0) with composition tolerances of (+ 2.0/ + 1.5/ + 2.0) by mass % from Graziele Morelli Gandini on behalf of Cia Ultragaz S/A.

Action: Vote on Designation and Classification

* 1. R0124-22-05 Zeotropic Refrigerant Blend R-1234yf/R-134a/R-1234zeE (35.4/10.1/54.5) with composition tolerances of (0.0, -1.0 / +1.0, -0.1 / +1.1, -1.0) (by mass % from Shanghai Suntech Biochemical Co

Action: Vote on Designation and Classification

* 1. R0125-22-05 Zeotropic Refrigerant BlendR-32/1234yf/152a (4.0/82.0/14.0)(+0.5, -1.5/+1.0, -1.0/+0.5, -1.5)by mass % from Chemours Company

Action: Vote on Designation and Classification

* 1. R0126-22-05 Single component refrigerant R-1123 from AGC Inc

Action: Vote on Designation and Classification

* 1. R0127-22-05 Zeotropic refrigerant blend HFO-1123/HFO-1234yf (32.0/68.0) by mass % from AGC Inc

Action: Vote on Designation and Classification

* 1. R0128-22-05 Zeotropic refrigerant blend HFO-1123/HFC-32/HFO-1234yf (32.0/37.0/31.0) by mass % from AGC chemical

Action: Vote on Designation and Classification

* 1. R0129-22-05 Zeotropic refrigerant blend HFO-1123/HFC-32/HFO-1234yf (19.0/55.0/26.0) by mass % from AGC chemical

Action: Vote on Designation and Classification

* 1. R0130-22-05 Zeotropic Refrigerant Blend R-744/32/125/134a/152a/1234ze(E)/227ea with composition tolerances of (7.0/26.0/15.0/15.0/3.0/30.0/4.0) by mass % from FluoroFusion Specialty Chemicals

Action: Vote on Designation and Classification

* 1. R-131-22-05 Zeotropic Refrigerant Blend R-32/HFO-1132(E)/R-1234yf (21.5/28.0/50.5) with composition tolerances of (+2.0/-2.0, +2.0/-2.0, +2.0/-2.0,) by mass % from Daikin Chemical

Action: Vote on Designation and Classification

1. **CONTINUOUS MAINTENANCE PROPOSALS**

8.1 There are 11 open CMPs which require review and vote. See attached. Also there is an standard committee driven change to propose language to no longer require paper applications. of Steve, Ryan, Asbjørn Vonsild, Bill Walter, and Sarah Kim

Action: Review and vote on PPR if necessary



**8 SUBCOMMITTEE REPORTS**

8.1 No subcommittee reports are planned currently, but could be added at the time of agenda review.

Action: None Informational Only

**9. REFRIGERANTS AND RCL VALUES IN THE CODES (M. Scancarello)**

9.1 Uniform Mechanical Code (UMC)

9.2 International Mechanical Code (IMC & IFC)

9.3 Any other information from the CIS (Code Interaction Subcommittee).

 Action: No actions, just a verbal report out in this area.

**10. Other BUSINESS**

10.1 Discussion of LFL values in calculator and standards (Steve)

10.2 Review of SSPC 34 Calculator (Michael Petersen)

10.3 ISO817 / SSPC34 alignment (Bill Walter, Steve Kujak, others)

 Action: No actions, just a verbal report out in this area.

1. **NEXT MEETINGS**

**NEXT CONFERENCE: Feb 4-8, 2023 | Atlanta, GA**

(Note: Meeting schedule subject to change.)

1. **ADJOURNMENT**