

# MINUTES BOARD OF DIRECTORS MEETING

Tuesday, December 6, 2022

Approved by the Board of Directors on February 5, 2023.

# **TABLE OF CONTENTS**

Board of Directors Meeting Tuesday, December 6, 2022

CALL TO ORDER
CODE OF ETHICS
ROLL CALL/INTRODUCTIONS
REVIEW OF MEETING AGENDA
SY2023-24 DUES
PROPOSED FAST-TRACKED IEQ RESPIRATORY PATHOGEN STANDARD
EXECUTIVE SESSION
ADJOURNMENT8

## PRINCIPAL APPROVED MOTIONS

Board of Directors Meeting Tuesday, December 6, 2022

No Pg.	Motion
1 - 2	Finance Committee recommends to the Board of Directors (BOD) a proposed dues
	increase in Society Year 2023-2024 to \$260 for Full Members and includes all other
	membership dues grades that are calculated based on a percentage of Full Member
	dues, except Developing Economy Member dues will not increase and will remain at
	\$155. Refer to ATTACHMENT A which outlines the recommended Fiscal Year 2023-2024
	dues by membership grade.
2 - 7	ASHRAE develop a non-ANSI standard to mitigate the risk of respiratory pathogens in
	buildings as defined in ATTACHMENT B.



## **BOARD OF DIRECTORS MEETING**

Tuesday, December 6, 2022

#### **MEMBERS PRESENT:**

Farooq Mehboob, President
Ginger Scoggins, President-Elect
Billy Austin, Vice President
Dunstan Macauley, Vice President
Sarah Maston, Vice President
Ashish Rakheja, Vice President
Jeff Littleton, Secretary
Steven Sill, Region I DRC
Ronald Gagnon, Region II DRC
Mark Tome, Region III DRC
Bryan Holcomb, Region IV DRC
Jim Arnold, Region V DRC
Susanna Hanson, Region VI DRC
Chris Gray, Region VII DRC
Randy Schrecengost, Region VIII DRC

Tyler Glesne, Region IX DRC
Devin Abellon, Region X DRC
Eileen Jensen, Region XI DRC
John Constantinide, Region XII DRC
Cheng Wee Leong, Region XIII DRC
Andres Sepulveda, Region XIV DRC
Richie Mittal, RAL DRC
Blake Ellis, DAL
Luke Leung, DAL
Wei Sun, DAL
Dru Crawley, DAL
Ken Fulk, DAL
Art Giesler, DAL
Wade Conlan, DAL
Kishor Khankari, DAL

Adrienne Thomle, DAL

#### **GUESTS PRESENT:**

Bill Bahnfleth Bryan Holcomb Glenn Brinckman Kevin Boyle Mark Drozdov

#### **STAFF PRESENT:**

Candace DeVaughn, Manager - Board Services
Chandrias Jolly, Assistant Manager - Board Services
Joyce Abrams, Director - Member Services
Vanita Gupta, Director - Marketing
Kim Mitchell, Chief Development Officer
Mark Owen, Director - Publications & Education
Stephanie Reiniche, Director - Technology
Alice Yates, Director - Government Affairs
Craig Wright, Director of Finance

#### **CALL TO ORDER**

Mr. Mehboob called the meeting to order at 8:01 am.

#### **CODE OF ETHICS**

Mr. Mehboob read the code of ethics statement and advised that the full code of ethics statement and core values were available online.

#### **ROLL CALL/INTRODUCTIONS**

Roll call was conducted. Members, staff, and guests in attendance as noted above.

#### **REVIEW OF MEETING AGENDA**

Mr. Mehboob advised that all open session items would be discussed before open session. There were no other changes or additions.

#### **SY2023-24 DUES**

Ms. Scoggins moved that

1. Finance Committee recommends to the Board of Directors (BOD) a proposed dues increase in Society Year 2023-2024 to \$260 for Full Members and includes all other membership dues grades that are calculated based on a percentage of Full Member dues, except Developing Economy Member dues will not increase and will remain at \$155. Refer to ATTACHMENT A which outlines the recommended Fiscal Year 2023-2024 dues by membership grade.

The background was shown on screen and was included in the meeting agenda.

Ms. Scoggins reported that the BOD heard at the Istanbul meeting about the struggles with developing economies. If approved, developing economies dues would remain unchanged.

She reported that the Finance Committee spent some time on the formula.

Mr. Mehboob reported that the Finance Committee will study the matter further and come up with a rational methodology for developing economies' dues. In the meantime, the proposal is to freeze dues until work can be done.

The floor was opened for discussion.

Mr. Khankari stated that he was undecided on the motion. He stated that the only justification he saw for increasing dues is because the formula says so.

Mr. Glesne responded that Mr. Khankari's interpretation of the motion was an incomplete analysis. The BOD already discussed the budget at length. The more current assignment was to review dues and determine what needs to be done as it relates to dues. The BOD would have to go back to the previous budget discussion to get that level of detail.

MOTION 1 PASSED (Unanimous Voice Vote, CNV).

#### PROPOSED FAST-TRACKED IEQ RESPIRATORY PATHOGEN STANDARD

Mr. Mehboob informed the BOD that Society received an invitation, through the Washington office, to speak to the COVID White House response team. He felt it would be appropriate to have a diverse set of people on the call. The pre-call meeting was with Mr. Bahnfleth, Mr. Knight, Mr. Mehboob, Mr. Littleton, Mr. Wentz, and Ms. Yates. Ms. Yates provided background to the group and helped to prepare Society's positions.

He reported that the group had a very comfortable call. Following the call, the ASHRAE team had a post-call session. The team felt that much of what would go into the standard is work that has already been done by the ETF. It would be a much-reduced effort where Society is repackaging some of the information that Society already has.

The group produced a response letter, which was shown on screen.

Mr. Littleton reported that members of the White House Science and Technology team, along with Dr. Jha, celebrated that ASHRAE is a leader and acknowledged the great work that ETF has done. In that context, the group asked what Society was doing in respect to pathogen mitigation. The ASHRAE group did not have a really good answer and the conversation underscored that this is a pivotal moment in history for ASHRAE.

Society has been talking about the importance of pathogen mitigation standards for the past several years. Unfortunately, the ANSI process is slow, which makes it difficult to respond quickly to environmental conditions and market demand for a pathogen mitigation standard. Society has already done the work; what is needed now is to reframe technical guidance into a standard that can be adopted by jurisdictions and move the needle.

Having a non-ANSI standard is not uncommon, AHRI does it. The reason to create a non-ANSI standard would be speed. The proposed process would mirror what normally happens but within a compressed timeline. Society would create a consensus standard using a balanced committee, just on a tighter timeline than the ANSI process allows for.

Mr. Littleton encouraged the BOD to not let the perfection driven by the ANSI process get in the way of the practical need to develop a standard that will assist jurisdictions in addressing the clear and present danger that pathogens represent. This is a moment for ASHRAE. He humbly suggested that the mission centric need for ASHRAE to respond with an adoptable standard is just as important, if not more so, than Society's response to the energy crisis in the past.

This is important for Society and would serve it well. The proposed is a fresh and different approach that would not be without criticism. However, the approach allows Society to respond quickly to a clear mission centric market demand. This work can minimize risk in the built environment. Ideally, the non-ANSI standard would be a feeder where the majority of the information would, eventually, end up in an existing standard.

Mr. Littleton reported that the fiscal impact of the proposed motion includes hiring staff to expedite the process.

Mr. Mehboob stated that if Society is able to do this, it would have a certain application around the world. Doing so would help to raise the Society's profile.

He reported that the group made it clear to the White House team that ASHRAE is governed by a BOD. He stated that the wisdom of the BOD is needed to guide this decision. He opened the floor to comments. A summary of that discussion is below:

(Scoggins) Mixed on this. Is there any cost benefit analysis that has been done? Is the White House willing to help fund this in any manner? Any revenue anticipated? Concerned with the liability of doing a standard that is not ANSI based.

(Mehboob) Good and pertinent comments. Had exactly the same idea about costs. The group did not specifically say this to the White House, but the idea was seeded, as it was stated that this would be an expensive enterprise. Revenue analysis has not been done at this point. Think there will be revenue but do not know what that will be at this point; the group feels the standard would sell itself.

(Littleton) The White House can't fund something like this directly and they are very sensitive about directing Society to do this. It is a very thin political line. Possible that Society could go to agencies to find funding, but right now there is no specific vision for funding from the government.

The fiscal impact is high and was meant to provide a worst-case scenario to the BOD. There would definitely be sales revenue that would be available within six months. But it is a challenging question to estimate revenue.

(Yates) With relation to the revenue question, this is not a partnership with the White House. The White House has hosted activities that will essentially do the marketing for this. The response to the ETF is indication of the great interest of the market demand coming from jurisdictions. There is a demand for this.

(Mehboob) Does Europe have a pathogen mitigation standard?

(Sepulveda) Do not have as such. The proposed standard would be a help to Europe as well.

(Mehboob) Would be a global first for Society.

(Constantinide) Does the government want a standard or code language? Focusing on code language would help with liability and speed up the process. In favor of the path that we are going but would speak in favor of using code language.

(Littleton) My understanding is that the standard would be written in mandatory code language that is written for adoption by jurisdictions.

(Arnold) In favor. Have concerns regarding budget and how those funds will be recouped.

(Khankari) Feels good that the ASHRAE brand is being recognized. Thanks to all that worked on this. Several concerns — Who is going to buy this standard? If we can develop a standard for pathogen mitigation, we deserve a Noble Prize. Society is not in the business of pathogen mitigation. Are we addressing IAQ or pathogen mitigation? Why does the White House have to tell us to do this if the ETF has done such a good job? Why didn't this suggestion come from Society? Maybe we are still lagging on our strategic thinking. Lastly, would we be setting a precedent? Where is this going to end? Should we be following what politicians tell us to do?

(Littleton) Want to emphasize that the White House is not asking us to do this. The White House conversation has underscored for the ASHRAE team that this is a mission centric item to serve the public and accomplish our mission. Just suffered one of the worst pandemics in history and we need to respond to that. If Society doesn't do this, another organization will. Society could decide to do this or relegate the task to another body as yet to be determined.

(Yates) Appreciate Mr. Khankari's points. The White House came to us because they know we are the experts. Really looking to us, not asking us to do this; important distinction because if they were asking us to do this it would require a public bid. The ASHRAE team just had a conversation with Dr. Jha because the White House has finally included buildings in their COVID responses. The White House has begun acknowledging how important IAQ and clean air are and they are looking to the experts. Looking to ASHRAE because public health experts are not building experts.

(Khankari) Pathogen mitigation and IAQ are two different things. We are not pathogen mitigation experts. Clarified his previous point asking why Society wasn't already working to create a standard focused on IAQ to reduce the risk of pathogen transmission. Not speaking against the recommendation.

(Mehboob) Our mission is to have healthy and sustainable indoor environment for all. No one is paying us for ETF guidance because that is who we are, we are here to serve humanity. Standards are meant to fill a gap and serve humanity.

(Sun) It is very critical for ASHRAE to enhance its importance in this field; especially for better IAQ to reduce airborne transmission. Not a typical research topic with a narrow focus. Could make a positive impact on the U.S. and globally. Important that we start with standard rather than code language. Time is of the essence, if Society doesn't do this other professional organizations will stand in the gap.

(Thomle) Agree with Mr. Constantinide. Mr. Sun has a great idea to use standard language first. Concerned that the White House may be approaching other organizations. If multiple organizations rush to create this standard, which one will the White House accept? Fooling ourselves that we will get payback in two to three years. Do think we need to do this because we have to be the leader in our industry.

(Yates) Can confirm that the White House is talking to other organizations. Don't know the full list but they have spoken to ANSI and the Harvard Healthy Buildings Institute.

(Hanson) The issue is so important, almost don't care about the payback at this point. If we did something like this that came out as fast as proposed, what are we getting rid of? Does that mean that we aren't going to file the PINS? Can we come back to have it ANSI approved? What exactly are we relaxing? The pandemic highlighted that we've allowed IAQ to languish. Can we put more effort and emphasis on putting more parts of our standards into codes?

(Reiniche) Haven't defined exactly how this will run. Wouldn't file a PINS, the process would happen outside of that. Once the document is complete it would be submitted through the ANSI process; to avoid confusion advise doing it separately.

Not a lot of teeth to ANSI's conflict duplication. ANSI doesn't write standards; they just enforce the rules. Hoping that since the White House reached out, that ASHRAE is at the top of their list to develop something like this.

(Macauley) In favor of this recommendation. We've talked about speed to market and this is an opportunity that has been presented to us and we need to act. There is high demand around the world. Opportunity to change our paradigm and how we can market products. Can use this as a test case. This is the result of the Government Affairs activities we have been doing. Need to respond quickly, otherwise, everything we have been working on is for not.

We've been given an opportunity to develop a product that has a showcase. That is better than most of our standards that we currently have on the market. Need to take advantage of this. The work has been done by the ETF. Let's look at this from a big picture perspective. Need to move forward and turn it over to Ms. Reiniche's team to work out the details.

(Fulk) Generally in favor of this. Intent is that this would be an international standard, hope that we would have proper international representation. Think we may have some information that already resides in ASHRAE. Have some concerns about the standard not being ANSI based but these concerns have been answered. Biggest concern is that the government is asking us to do this and then asking us to pay for it. Think the government should help share this cost. Suggest reaching out to other entities to see if we can get other partners to share the cost of this. Believe the revenue stream will fall well short of the cost to develop this standard. Do not feel there will be any payback based on the cost on the table right now.

(Mitchell) This is exactly the kind of thing that Development should be raising funds for. If the motion is approved as stated, makes it harder to sell this to private foundations because they want to believe that they make the difference in whether things happen or not. It would be preferable if the motion indicated that this were contingent based on fundraising; otherwise, it makes it more difficult to raise money. May take us a while because of the funding cycles of foundations, anywhere from two to six months.

(Mehboob) Can we concurrently raise money while working on the standard?

(Littleton) The ETF did a lot of work in advance and then sponsorship dollars came in. Believe we can start work while Development looks for funding.

(Mittal) In favor of the recommendation. Believe this could be an international global standard.

(Maston) In favor of this recommendation. Would like to piggyback on what Mr. Macauley said. Would be beneficial to go back and see exactly what the expectation is, take that information and make a global standard. Most of our standards don't make money and don't understand why this should be held to a different standard. Need to put our money where our mouth is as we keep talking about being market focused.

(Leung) This is about leadership and relationship. Different groups are discussing developing this standard. Suggest going back to the White House and recommending that Society work with others, so as not to confuse the public with multiple standards. Hope that Mr. Bahnfleth will be involved in this process.

(Conlan) This presents a global positioning of ASHRAE that we need to take advantage of. On the ETF this sort of thing was talked about quite a bit, but the group was focused on getting information out to people. We can take this opportunity to look at this from a holistic standpoint. Unique moment to advance IEQ where Society can be the leader. This document could be step one. Could get to the point where we are creating model IEQ codes for the world. Tools that support this and new tools created would be using ASHRAE IAQ tools.

(Khankari) After listening to the comments, strongly in favor of the motion. The infectious aerosols PD addresses all aspects of this potential standard. In addition to the work of the ETF, do not think we will need the full fiscal impact as all of the work has already been done by volunteers. Suggest that marketing be done at the same time we are developing this topic.

(Mehboob) The proposed motion should ask the BOD to proceed down this path, do not feel that 'expedite' be included as we are not currently doing this.

(Littleton) Good point. 'Expedite' was included because of the fiscal impact.

Ms. Scoggins moved and Mr. Macauley seconded that

**2.** ASHRAE develop a non-ANSI standard to mitigate the risk of respiratory pathogens in buildings as defined in ATTACHMENT B.

Attachment B was included in the meeting agenda and shown on screen.

Ms. Mitchell stated that it would still be helpful to include language about contingent funds from other sources.

Mr. Mehboob responded that he felt that the proposed language could be in the background but that it doesn't need to be in the body of the motion. Suggest adding a line to the background so that the motion doesn't need to be changed.

Ms. Scoggins expressed agreement. She stated that the fiscal impact does not state where the funds will come from.

**MOTION 2 PASSED** (Unanimous Voice Vote, CNV).

Mr. Mehboob stated that the BOD had a fantastic discussion and have taken up a great decision for ASHRAE.

#### **EXECUTIVE SESSION**

Executive session was called at 9:30 am.

Open session reconvened at 12:07 pm.

#### **ADJOURNMENT**

The meeting adjourned at 12:07 pm.

Jeff H. Littleton, Secretary

## **ATTACHMENTS:**

- A. Recommended FY 2023-24 Dues by Membership Grade
- B. Developing a National Indoor Air Quality Standard to Mitigate the Risk from Respiratory Pathogens
- C. WebEx Chat Log

# **Membership Dues**

		' <b>2022-23</b> Current)		FY 2023-24 (Calculated)			
Full/Associate/Fellow Grade							
Regular	\$	240	\$	260			
<b>Developing Economy</b>	\$	155	\$	155	Frozen for FY23-24 (Not Calculated)		
Affliate Grade							
Regular							
Year 1	\$	60	\$	65	25.0% of Full Member Dues		
Year 2	\$	90	\$	100	37.5% of Full Member Dues		
Year 3	\$	120	\$	130	50.0% of Full Member Dues		
Developing Economy	·		·				
Year 1	\$	40	\$	40	25.0% of Dev. Eco. Member Dues		
Year 2	\$	60	\$	60	37.5% of Dev. Eco. Member Dues		
Year 3	\$	80	\$	80	50.0% of Dev. Eco. Member Dues		
Student Grade							
Regular	\$	25	\$	25	10.0% of Full Member Dues		
Developing Economy	\$ \$	15	\$	15	50.0% of Student Member Dues		
Student Transfer Program (SmartStart)							
Regular							
Year 1	\$	25	\$	25	100.0% of Student Member Dues		
Year 2	\$	90	\$	100	37.5% of Full Member Dues		
Year 3	\$	120	\$	130	50.0% of Full Member Dues		
Developing Economy							
Year 1	\$	15	\$	15	100.0% of DE Student Grade Member Dues		
Year 2	\$ \$ \$	60	\$	60	37.5% of Dev. Eco. Member Dues		
Year 3	\$	80	\$	80	50.0% of Dev. Eco. Member Dues		
Retired							
Regular	\$	35	\$	40	15.0% of Full Member Dues		
<b>Developing Economy</b>	\$	20	\$	20	50.0% of Retired Member Dues		
Life	\$	-					

<sup>\*\*</sup>Rounded up/down to closest 0 or 5



# Developing a National Indoor Air Quality Standard to Mitigate the Risk from Respiratory Pathogens November 18, 2022

#### Scope

Delivery of a comprehensive, consensus-based, code enforceable National Indoor Air Quality Standard to Mitigate the Risk from Respiratory Pathogens. The standard will include:

- Both design and operation;
- Alternative paths (prescriptive or performance), in which equivalent clean air would be the goal; and
- Testing, verification, documentation (commissioning) and periodic re-commissioning.

#### Methodology

ASHRAE will set up a balanced team of internationally recognized experts to work on an accelerated timeline to develop the standard.

ASHRAE will develop a detailed title, purpose, and scope of the standard.

ASHRAE will seek input from a variety of stakeholders, including those with expertise from the federal government such as the White House Covid Response Team, the White House Office of Science and Technology Policy, Centers for Disease Control and Prevention, U.S. Environmental Protection Agency, National Institute of Standards and Technology, and the National Laboratories.

#### **Timeline**

The overall timeline for delivery of the IAQ standard is estimated to be **6 months** from the date of commencement, with an aggressive push to deliver by March 31. The following is a high-level breakdown of key deliverables:

- Detailed title, purpose, and scope: 15 days.
- Draft standard for peer review: within 90 days.
- Peer review period: 14 days
- Address peer review comments and submit for final publication: 45 days.

#### Incorporation of Pathogen Mitigation into ANSI Standards 62.1 and 62.2

In coordination with the pathogen mitigation standard development effort, ASHRAE will work to incorporate similar provisions into existing ASHRAE IAQ standards.

#### **Options Post Development**

ASHRAE could develop additional resources supplemental to the IAQ standard:

- Education and Training
- Design Application Guidance
- Operations and Maintenance Resources
- Other Resources

## ATTACHMENT C

December 6, 2022 7:48 AM from Adrienne T to everyone: Good morning and good evening!

December 6, 2022 8:07 AM from Tyler Glesne to everyone: I can't unmute but i'm here

December 6, 2022 8:07 AM from Tyler Glesne to everyone:might need permission

December 6, 2022 8:27 AM from Mitchell, Kim to everyone: We can send out some proposals to foundations and corporate partners to try to raise this money. However, foundations may take a while to make decisions.

December 6, 2022 8:28 AM from Mitchell, Kim to everyone: For the record, I am talking about the cost for developing the standard for pathogen mitigation within 6 months.

December 6, 2022 8:30 AM from Mitchell, Kim to everyone: It could be helpful when approaching foundations if any money approved by ASHRAE were contingent upon not raising the money or all of the money. If it is approved up front, that may make it harder to "sell" the request.

December 6, 2022 8:35 AM from Mark Owen to everyone: If Standard 188 is an analog, ballpark annual revenue has averaged \$30k-\$35k.

December 6, 2022 8:39 AM from Eileen Jensen to everyone: The dues increase we just passed will cover the estimated cost - just an observation.

December 6, 2022 8:40 AM from Ginger Scoggins to everyone: Good thought, Eileen!

December 6, 2022 8:40 AM from John Constantinide to everyone: Agreed!

December 6, 2022 8:49 AM from Ginger Scoggins to everyone: Many of our competitors are developing "standards" that are not ANSI based and are kicking our butts in terms of speed-to-market. I agree if we don't do it someone else will.

December 6, 2022 8:54 AM from Bill Bahnfleth to everyone: This is a case of "needing to be in that room" to quote Tim Wentz. The public wants guidance - whether it is called a standard or something else. Who would we rather have develop that, taking into consideration all of the other considerations of cost, energy use, etc. that apply. Currently, ventilation recommendations are being made by people who know very little about buildings or the construction industry. This is a unique moment for advancing IAQ. Addressing the demand for guidance on infection risk mitigation is a foot in the door for a much bigger opportunity to have national model IAQ codes, which could be ASHRAE's existing IAQ standards.

December 6, 2022 8:54 AM from Reiniche, Stephanie to everyone: ANSI doesn't write standards but would likely provide names of organizations that have the scope that might cover the topic. I would hope they would put ASHRAE at the top of that list

December 6, 2022 8:56 AM from Ron Gagnon to everyone:can we run a parralel path with ansi, and eventually get it ainsi approved

December 6, 2022 8:57 AM from Adrienne T to everyone: Good comment Ron.

December 6, 2022 8:58 AM from Wei Sun to everyone: Good point, Ron.

December 6, 2022 8:59 AM from John Constantinide to everyone: Something to keep in mind with federal agencies and funding, there is a strong trend to have more industry/private partnership with the federal government to do activities like these. I would not be surprised if the White House does not ultimately provide funding, but perhaps we can negotiate some soft benefits, such as recognition, promotion to jurisdictions through federal connections, etc., that can yield financial benefit to ASHRAE.

December 6, 2022 9:00 AM from Eileen Jensen to everyone: I agree John, very good point. December 6, 2022 9:02 AM from Bill Bahnfleth to everyone: FYI, ETF generated direct donations of ~\$165K December 6, 2022 9:03 AM from Wei Sun to everyone: Dunstan, thank you for your comment. December 6, 2022 9:04 AM from Adrienne T to everyone: Thank you Bill, can we do it again? Raise funding?

December 6, 2022 9:04 AM from ANDRES to everyone: This is a great opportunity to listen to "Voice of Customer" (BOD Strategic focus). Let's respond YES we can do it

December 6, 2022 9:05 AM from Mark Owen to everyone: Be aware that funders may want to restrict our ability to copyright the content and earn revenue.

December 6, 2022 9:07 AM from Susanna Hanson to everyone: What Mark said. Let's have this be ASHRAE money and not funder money.

December 6, 2022 9:07 AM from Bill Bahnfleth to everyone: Adrienne, I do.

December 6, 2022 9:07 AM from Adrienne T to everyone: Thank you for the clarification Kim.

December 6, 2022 9:08 AM from Ken Fulk to everyone: One question that I have, out of curiosity, is whether the government has a specific goal in mind that they want this standard to say or address or do? It might be beneficial to get any specific input from them to be clear on expectations. Having said that I also think that we need to do what we believe is the right thing to do and not be pushed toward an expected answer.

December 6, 2022 9:10 AM from Wei Sun to everyone: Collectively, ASHRAE can do it, otherwise someone else could use the information developed by ASHRAE and package them into their product. This is not a typical research project, instead, the impact from this product is going to be much bigger.

December 6, 2022 9:11 AM from Yates, Alice to everyone: Thanks Ken for your great question! The Government wasn't asking for something specific; they wanted to know what ASHRAE is doing. The WH is pushing for good Indoor Air Quality. It's not more specific than that (which is part of the challenge!)

December 6, 2022 9:14 AM from John Constantinide to everyone: Wade's point on tools for codes is a good point. I think we can get more buy-in and funding, federal or otherwise, with developing the tools to enforce and comply with the code language developed.

December 6, 2022 9:15 AM from Wade Conlan to everyone: Thanks John. And the fund raising could towards those items in addition to this standard (non-ansi) document.

December 6, 2022 9:16 AM from Eileen Jensen to everyone: We need to build on the momentum from the ETF, which I believe is why the White House approached us in the first place. As others have noted, we have the expertise to look at this holistically and be the leaders in this.

December 6, 2022 9:16 AM from Wei Sun to everyone: Wade: Good summary.

December 6, 2022 9:20 AM from Tyler Glesne to everyone:break

December 6, 2022 9:20 AM from Bill Bahnfleth to all panelists: Ken - The main thing missing in ASHRAE guidance is a recommendation on ventilation rates. That alone would probably satisfy them, but we can do better.

December 6, 2022 9:37 AM from Art Giesler to everyone: Can we speed this up and do a consent

# agenda for RMCR in the future?

December 6, 2022 Candace and Chandrias!

12:06 PM

December 6, 2022 9:38 AM from Billy Austin to everyone: i am having technical difficulties. Could someone please send me the link to poll everywhere? Thanks!							
December 6, 2022	11:08 AM	from Chris Gray to everyone: Chris is back					
December 6, 2022 Candace!	11:18 AM	from Kishor Khankari AnSight LLC to everyone: Excellent job,					
December 6, 2022 11:27 AM from Susanna Hanson (privately): I did not receive the communcation of this ethics yesterday. Please forward to my new work email address: susanna.hanson@honeywell.com							
December 6, 2022 scope review.	11:57 AM	from Jim Arnold to everyone: I have a hard out at noon. I have a					
December 6, 2022 well conducted voting	12:02 PM	from Richie Mittal to everyone: Thanks Candace and Chandrias for					

from Eileen Jensen to everyone:

Agreed Richie - thank you