

Newsletter

Technical Visit to Indoor Air Quality Cutting-Edge Research Laboratory

Inside the Climate Challenge Laboratory

The Indoor Environment Lab within the facility boasts an impressive array of advanced features:

- **Climate Chambers:** These controlled environments allow researchers to simulate various indoor conditions, from extreme heat to chilly temperatures.
- **Field Laboratories:** Real-world testing grounds where innovative solutions are put to the test.
- **Breathing Thermal Anatomical Models:** These anatomically accurate models help study how humans respond to different thermal environments.
- **Precise Measurement Equipment:** Researchers can measure and analyze indoor climate parameters with precision.

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ASHRAE TC 9.9 Datacom Encyclopedia

You might know about the ASHRAE Datacom Series, but have you heard about the ASHRAE TC 9.9 Datacom Encyclopedia?

The ASHRAE TC 9.9 Datacom Encyclopedia evolved in 2024 from the longstanding ASHRAE Datacom Series, a series of print books that provides information on data center-related subjects.

The Datacom Encyclopedia offers updated, previously unpublished content formerly covered by the Datacom Series books Thermal Guidelines for Data Processing Environments, Design Considerations for Datacom Equipment Centers, and Liquid Cooling Guidelines for Datacom Equipment Centers, as well as PDFs of every edition of the 14 books in the ASHRAE Datacom Series for historical reference. Over time, the pertinent information from all the books will transition to be housed in this online encyclopedia.

[Read more on page 2 \[...\]](#)



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[...]

Interdisciplinary Collaboration

Physicists, chemists, energy engineers, and biologists collaborate within the lab. They work alongside students, companies, and other universities to tackle pressing climate challenges. Notably, the lab hosts a research center dedicated to developing sustainable catalysts for more efficient renewable energy production.

Technical Talks: Field Trip/Plant Tour, Visit to DTU Laboratory

As part of the lab's outreach efforts, DTU Sustainability, ASHRAE Denmark Section and Danvac organized a field trip. On Friday, June 7, 2024, in the afternoon, visitors could participate in a guided tour of the Climate Challenge Laboratory. The tour included an over-

view of ongoing research projects, interactive demonstrations, and insights into cutting-edge technologies. Attendees could gain firsthand knowledge of the lab's mission to create healthier, more sustainable indoor environments. Professor Ogun Berk Kazanci, Member ASHRAE, led the tour.

Sustainability at the Core

DTU's commitment to sustainability extends beyond research. The Climate Challenge Laboratory itself adheres to the highest standards. Certified according to the international DGNB Gold standard for sustainable construction, the building minimizes resource and energy consumption during construction. Its flexible design and carefully chosen materials prioritize both a low CO2 footprint and long-term durability.

"Attendees could gain firsthand knowledge of the lab's mission to create healthier, more sustainable indoor environments. Professor Ogun Berk Kazanci, Member ASHRAE, led the tour."

CEBD - Center of Excellence for Building Decarbonization

Join Us on the Journey to Zero!

Building owners, government jurisdictions and industry professionals around the world are responding to accelerating climate change and recognizing that building decarbonization is a significant component to their efforts. The worldwide building sector accounts for about 40% of energy-related carbon emissions and the global building stock is predicted to double by the year 2060.

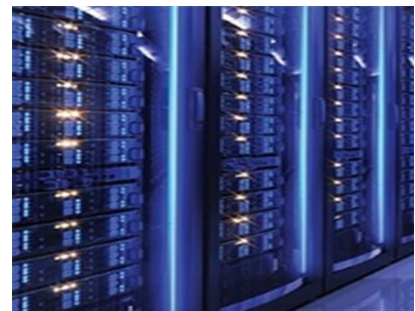
Are you interested in participating in projects on decarbonization? If so, please send an email to decarb@ashrae.org

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[...]

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To enable and disable access to the encyclopedia, visit <https://datacom.ashrae.org/> and click Manage Subscription in the top blue bar. Users can review ASHRAE's privacy policy at www.ashrae.org/privacy-policy.



New Distinguished Lecturers added to the roster for 2024-2025

The Distinguished Lecturer (DL) program provides ASHRAE chapters, student branches, neighboring universities/colleges, and other organizations the opportunity to hear outstanding speakers on the leading edge of technology. Chapters can request visits from Distinguished Lecturers through their CTTC RVC.

Each year CTTC reviews nominations for new

Distinguished Lecturers to move into our limited number of positions. This year 14 new DLs from the large and very qualified pool of nominees were accepted into the program. Please join us in welcoming new speakers from around our ASHRAE globe.



Mentoring Program

YEA Institute works to offer a variety of YEA-focused education and networking programs, including the YEA Mentoring Program.

The objective of the YEA Mentoring Program is to create a professional partnership between a YEA member and professional member of a local chapter. As the future leaders of ASHRAE, this program offers YEA members the opportunity to gain a more in-depth understanding of their profession, the HVAC&R industry, and ASHRAE in general. Instead of going through the process on their own, YEA members have the ability to turn to their mentor for assistance, questions or insight. This is a beneficial way for YEA members to grow in their career and develop professional expertise. Ways in which mentors can help include providing career guidance, helping understand HVAC&R fundamentals, introducing their mentee to ASHRAE members and guiding their involvement within their ASHRAE chapter and Society.

Unlocking Growth: The Power of Mentorship for Engineers

Mentorship is a powerful tool that can transform an engineer's career trajectory. Whether you're a seasoned professional or just starting out, having a mentor can make a significant impact. Here are some key benefits:

Career Guidance: A mentor provides valuable insights and advice

as you navigate your career. They help you set goals, identify opportunities, and make informed decisions.

Professional Networking: Through mentorship, you expand your network. Mentors introduce you to other professionals in your field, opening doors to new connections and growth opportunities.

Skill Development: Learn from your mentor's experience and expertise. They guide you in technical skills, soft skills, and best practices, accelerating your professional development.

Confidence Boost: Having a mentor who believes in your potential boosts your confidence. They celebrate your achievements and provide encouragement during challenging times.

In our Engineering Mentorship Program, senior engineers mentor junior team members, fostering growth, cohesion, and faster progress. Let's embrace mentorship and propel our engineering careers forward!



Honors & Awards

ASHRAE's Honors and Awards program recognizes the dedicated ASHRAE Members who give freely of their time and expertise to fulfill the Society's mission of advancing the arts and sciences of HVAC&R to serve humanity and provide a sustainable world. Our award recipients exemplify the best in engineering and technology by continually bringing credit to the profession and the Society.

ASHRAE is proud of the many contributions its men and women have made on behalf of the Society and to our industry. We encourage you to help us recognize those members who deserve to be thanked by nominating them for an appropriate award.

Nominations for Personal Honors and Personal Awards for General Society Activities may be made by chapters, regions, committees or individual ASHRAE members. Nominations for Personal Awards for Specific Society Activities and Society Awards to Groups or Chapters are made by the committee which sponsors the award. Recommendations for Paper Awards are made by the Society Program Committee. Nominations for Regional Awards are made by the delegate from a candidate's chapter at the Chapters Regional Conference (CRC).

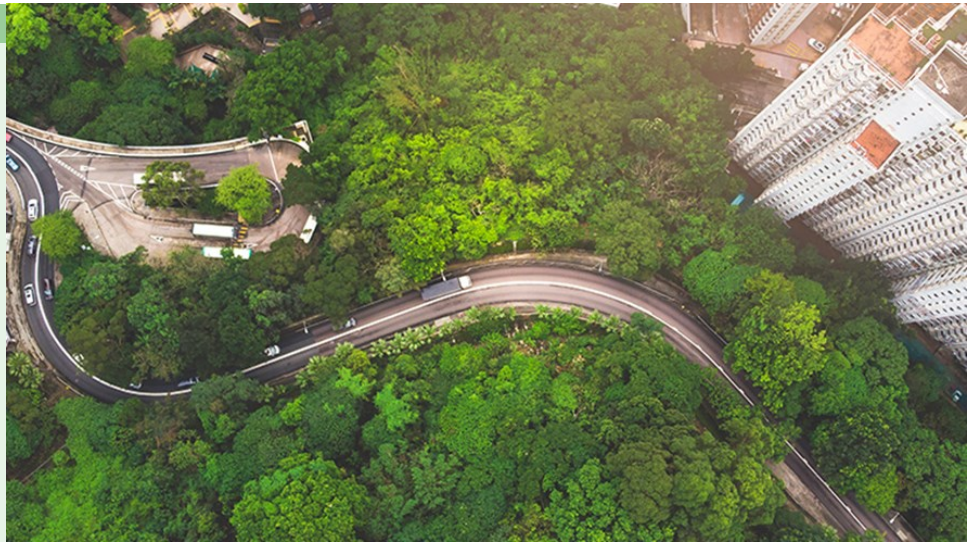
Nomination deadlines can be found on: <https://www.ashrae.org/membership/honors-and-awards>

How has the Industry Evolved with Respect to Building Decarbonization Since You've Been in the Field?

ASHRAE's bimonthly video series looks at the carbon problem and describes how ASHRAE is leading the way towards a solution. In this latest video, industry experts 2024-25 ASHRAE President-Elect Bill McQuade and ASHRAE Members Charles Eley and Jim Edelson reflect on ways they are seeing an increased focus on decarbonization today compared to when they started in the industry. Watch now and Join Us on the Journey to Zero. Check out additional resources and videos at <https://www.ashrae.org/decarb>.

The theme for World Refrigeration Day 2024 was "Temperature Matters"

The World Refrigeration Day (WRD) celebrated the people and technologies responsible for creating and maintaining temperature-controlled environments. This year's theme was "Temperature Matters...Absolutely!". The campaign explored the broad impacts of the refrigeration, air conditioning, and heat pump industry, emphasizing not only efficient cooling and heating but also crucial aspects of indoor environmental quality. It coincided with the bicentenary of Lord Kelvin's birth, a pioneering figure in thermodynamics, whose work influenced both cooling and heating technologies. Lord Kelvin's insights also paved the way for heat pump technologies, crucial for global decarbonization efforts.



One day. Two Special Events

On September 4, the ASHRAE Nordic Chapter is hosting two exciting events: the ASHRAE Nordic Chapter Seminar and a Field Trip. Let's dive into the details of these events! ASHRAE Nordic Chapter Seminar: Decarbonization. The seminar's central theme is Decarbonization. We're starting by examining this critical topic from a big-picture perspective. Our presentations will explore various aspects of decarbonization, delving into the technical intricacies. Expect deep dives into sustainable practices, energy-efficient solutions, and innovative approaches. To conclude the seminar, we're hosting a panel discussion. This session aims to bridge the gap between the high-level vision of decarbonization and the nitty-gritty technical details. Whether you're an engineer, researcher, or sustainability enthusiast, this seminar promises valuable insights.

Field Trip: Sønderborg Hospital

Our field trip takes us to Sønderborg Hospital in Southern Denmark. Sygehus Sønderjylland, as it's locally known, is at the forefront of sustainable healthcare. Here's why: Energy Transition, Driven by Project Zero and IEA, and CO2 Neutrality.

Dual Benefit: The hospital's cooling system not only serves its internal requirements but also cools the district return line during winter. It's a win-win scenario that maximizes efficiency.

A Global Model: Sønderborg Hospital's approach serves as a model for hospitals worldwide. By showcasing successful strategies, they inspire others to adopt sustainable practices.

Bonus Tip: Explore Nordborg

While you're in the area, consider extending your stay by one or two days to explore the picturesque Nordborg. Its natural beauty and charm make it a delightful addition to your trip.

Join us on September 4 for enlightening discussions, practical insights, and a glimpse into the future of sustainable healthcare!



Message from the Chapter President

Dear Esteemed Colleagues,

I am thrilled to share exciting news: our Nordic Chapter has flourished! Through collective effort and unwavering commitment, we have elevated our status, officially becoming Chapter number 225 during the ASHRAE Annual Conference in Indianapolis, USA, this June.

To each member from the Nordic countries, I extend my heartfelt gratitude. Your trust and support are the bedrock of our success. ASHRAE, with its highly qualified and dedicated professionals, empowers us to drive positive change in the global HVAC&R industry.

Sustainability lies at the core of our mission. As stewards of the built environment, our decisions reverberate far beyond blueprints and calculations. They impact energy consumption, resource utilization, and the health of our planet. Let us continue to champion energy efficiency, resource conservation, and environmental responsibility in every project we undertake.

Our commitment extends beyond technical excellence. We seek stronger ties with local HVAC&R associations, the community, and all stakeholders. By collaborating closely, we can foster innovation and promote sustainable practices. Let's equip our members with the tools they need to excel, ensuring they contribute to sustainable building practices worldwide.

Active participation is our rallying cry. Together, we can elevate the HVAC&R sector to new heights. Trust me—I am unwavering in my dedication to honesty, integrity, perseverance, and discipline. And a special shout-out to the 21 Members who volunteer tirelessly for our Chapter—you are the heartbeat of our success.

Thank you for entrusting me with this role. Let's forge ahead, united in purpose, and make a lasting impact.

Warm regards,

Samir Hernandez, Member ASHRAE

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2024-25 President, ASHRAE Nordic Chapter



"Our commitment extends beyond technical excellence. We seek stronger ties with local HVAC&R associations, the community, and all stakeholders."

Next Chapter Meetings

September 4, 2024 — Field Trip: Sønderborg Hospital

September 4, 2024 — Seminar, Sustainability: Decarbonization

November 6, 2024 — Students as Speakers, Francisco Beltran V. Varela

February 2025 — Field Trip

March 2025 — Students as Guests

April 2025 — Joint Meeting

May 2025 — Annual Chapter Meeting

June 2025 — University Research

About

ASHRAE Nordic Chapter is a local branch of ASHRAE, a global society founded in 1894. ASHRAE's mission is to advance human well-being through sustainable technology for the built environment. With over 56,000 members worldwide, ASHRAE focuses on building systems, energy efficiency, indoor air quality, refrigeration, and sustainability. The organization contributes to shaping tomorrow's built environment through research, standards writing, publishing, certification, and continuing education. The geographic area covered by ASHRAE Nordic Chapter is Denmark, Iceland, Norway, Finland, and Sweden.

Chapter Notes

2024-2025 Student Activities Centralized Training

Student Activities Centralized Training was conducted virtually again! This training was specifically designed for SA Chairs and Co-chairs who will serve in their roles from July 1, 2024, to June 30, 2025. Since it was a virtual event, it was open to anyone with an interest in Student Activities. During this training, participants learned how to excel in their roles as Student Activities chairs and developed their SA network. They had the opportunity to meet their Regional Vice Chair, connect with other members from their region, and engage with successful SA Chairs. The interactive sessions covered best practices, key deadlines, PAOE (Programs, Awards, and Operations Exchange), and running reports.

After attending Centralized Training, participants gained the skills to assist student members in applying for scholarships, student grants, and participating in design competitions. But perhaps most importantly, they left with new friends and valuable contacts whom they could reach out to throughout the year for help, advice, or inspiration.

For any questions, you can contact Katie Thomson at kthomson@ashrae.org.

Visit:
www.linkedin.com/company/ashrae-nordic

