

ASHRAE NY's Climate Crisis Committee

Presents: Earth Day 2024 – 4/15/24 7:30AM - 1:30PM

CHALLENGE ACCEPTED: TACKLING THE CLIMATE CRISIS

Abstract:

Great progress is being made. Even COP28 resulted in a watershed energy transition statement. With New York State's Community Protection Act (CLCPA) ready for completion, the Federal 2022 Inflation Reduction Act, NYC Local Law 97 implemented January 1 2024, and the NYS 2024 Climate Impacts Assessment Report - it appears decarbonization, energy reduction, and the drawdown of GHG emissions at scale are well underway to meet the 2030 and 2050 targets. Or are they?

What technologies and strategies are working? Are geothermal, solar, thermal and battery storage, and carbon capture being implemented effectively? Is EV infrastructure being developed fast enough, and is the electric grid keeping up with demand? Can mitigation and resilience be designed into the built environment to achieve net zero by 2050? This event brings a diverse panel of academics and engineers from ASHRAE Society and ASHRAE NY to discuss the real progress on the way forward to a Net Zero NYC.

Breakfast

7:30am – 8:30am

INTRODUCTION: **Scott Sherwood** – EcoCareAir, Bronx NY
Introduce event, speakers, and panels.

8:00am - 8:10am

KEYNOTE SPEAKER: **Ginger Scoggins** – ASHRAE President (2023-2024)
The Challenge of The Climate Crisis – ASHRAE's Response & Update

8:10am - 8:25am

Presentation of Award – Private Foundations
Ginger Scoggins presents to Peter Klein, Claire Friedlander Foundation

8:25am - 8:30am

ASHRAE's DECARBONIZATION FOCUS:

Carrie Brown, Ph.D. – Resource Refocus LLC.

An overview of guidelines developed by ASHRAE's Task Force for Building Decarbonization; summary of NYSEDA's recently released New York State Climate Impacts Assessment which assessed climate impacts across eight sectors: agriculture, buildings, ecosystems, energy, human health and safety, society and economy, transportation, and water resources.

8:30am - 9:15am
(includes 10 min Q&A)

Paul Torcellini, Ph.D. – National Renewable Energy Labs

Adaptation & Resilience: Technologies & Strategies
ASHRAE Distinguished Lecture: "*Advanced Design Guide for Net Zero Buildings*"

9:15am - 10:00am
(includes 10 min Q&A)

Networking/Refreshments Break

10:00am – 10:30am

PANEL: Electrification Technology & Infrastructure: Can NYC handle Electrification?

PANEL PRESENTATION: **Griffin Teed** – Jaros Baum & Bolles
How to electrify NYC buildings and the lessons learned – 520 Madison Ave.

10:30am - 11:00am
(includes 10 min QA)

PANEL DISCUSSION: **MODERATOR: Scott Sherwood** – EcoCareAir

11:00am – 12:45pm

Richard Gerbe – Highmark – Heat Pump technology

Sarah MacLean – WB Engineering – Electric Vehicle infrastructure

Randy Topp – Ainsworth/BP Air – Geothermal case study

Jeff Urlaub – Salas O'Brien – Fordham University case study

Jean-Simon Venne – BrainBox AI – AI & Innovative Solutions

Q&A time throughout panel discussion, including virtual audience questions

CLOSING REMARKS: **Scott Sherwood** – EcoCareAir

12:45pm - 1:00pm

Networking/Lunch

1:00pm – 1:30pm