

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Marlon**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**MARK BANAS**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Chad Beery**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**J Bena**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**lou bentzen**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Megan Blank**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Jeremy Bowers**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Craig Briggs**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Joe Cavanaugh**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Pete Cianci**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Mitchell Clemente**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Jake Copley**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Mattias DeDoes**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**David Demagall**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Heather Demor**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Darlene Diehl**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Terrance Eakin**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**John Edwards**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Nestor Espana**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Allan Fox**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Michael Frederick**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Michael Gaffney**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Brandon Haberl**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Amy Harmon**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Dieter Hausmann**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Lee Hodkey**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Joe Hofstetter**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Brian Holloway**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Lorence Holzhauer**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Thomas House**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Thomas House**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Michael Huston**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Michael Karpinski**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Vikas Kiran**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Matt Knotts**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Jerry Kocan**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Steve Krupar**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Rob Laneve**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Lan LI**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Jeff McCausland**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Edward McGuigan**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Nate Mcquiggan**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Valerie Miller**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Matt Morgan**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Mike Mueller**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Chuck Nachman**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Anand Natarajan**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Pratik Navadiya**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Daniel Pacek**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Coral Pais**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Eric Porr**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Kelly Robbins**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**John Sabo**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Aru Sau**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Bret Schlosser**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**JEFF SCHULLER**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Matt Sejba**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Jared Singer**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Matt Slocum**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Mike Spangler**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Andrew Stanton**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Mark Stefanak**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Tara Sulzer**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

Joe T/E/S

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115



# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**John Velbeck**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Josh Vermillion**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Brian Wadsworth**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Brian Wagner**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Guo-Xiang Wang**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Joe Zaworski**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Doug Zentz**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115

# *Certificate of Attendance*

The Cleveland, Ohio Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) presents this certificate to

**Michael Zerminski**

for attendance of “ Sustaining Building Operation via Standard 189-  
Standards for the Design of High Performance Buildings; except Low-Rise  
Residential ”  
on October 19th, 2020

Presented By: Doug Zentz  
Professor at Ferris State University

This seminar provides 1.0 Hour of Continuing Professional Development (1.0 CPD) relating to  
HVAC technology and industry education.

Meeting time: 12:00pm - 1:00pm

Mike Spangler  
President  
ASHRAE - Cleveland Chapter



**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

---

Cleveland Chapter, 3419 Carnegie Avenue, Cleveland, Ohio 44115