

Agenda

Presented by Aaron B  tit and Joseph F. Bridger

Sound Characteristics and Transmission

- Principles of sound generation, transmission, and reception
- Loudness measured in decibels
 - Frequency measured in hertz
 - Sound versus noise
 - Impact of sound on people

Principles of Room Acoustics

- Controlling sound reflection and absorption
- Reverberation
 - Sound absorption and noise reduction coefficients
- Speech intelligibility and sound quality

Principles of Sound Transfer Between Spaces

- Practical techniques for controlling sound transfer
- Exterior and interior walls: outdoor-indoor transmission class (OITC) and sound transmission class (STC)
 - Floors: impact insulation class (IIC)
 - Ceilings: ceiling attenuation class (CAC), articulation class (AC) and Sabins
- Controlling sound from mechanical equipment
- Examples of design, materials, and construction techniques to improve control

Providing Acoustical Comfort in Interior Spaces

- Sound in buildings: sources and characteristics
- Exterior sounds
 - Interior sounds
- Residential buildings
- Schools: classrooms and assembly spaces
- Offices: private and shared spaces
- Healthcare facilities: waiting rooms, exam rooms and workspaces
- Commercial and industrial spaces
- Designing to control sound
- ANSI S12.60 for schools
 - LEED credits for acoustic control

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Interior Acoustical Design and Construction

Live, Interactive Webinar - Friday, May 31, 2024

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Learning Objectives

You'll be able to:

Understand principles of sound generation, transmission and reception, and learn how these principles impact the acoustical characteristics of interior spaces.

Consider the principles of reverberation and sound absorption, and learn how these can impact speech intelligibility and sound quality.

Identify materials and techniques for controlling the transfer of sound between spaces.

Learn about methods of providing acoustical comfort in interior spaces, including schools, assembly spaces, offices and industrial spaces.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Interior Acoustical Design and Construction

Live, Interactive Webinar - Friday, May 31, 2024



Examine the principles of sound generation, transmission, and reception

Consider the principles of room acoustics, including controlling sound reflection and absorption

Identify practical techniques for controlling sound transfer

Discuss techniques for controlling sound from mechanical equipment

Learn how to provide acoustical comfort in interior spaces

Continuing Education Credits

Professional Engineers
6.5 PDHs

International Code Council
.65 CEUs (Building)

Architects
6.5 HSW CE Hours
6.5 AIA LU | HSW

AIA
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Webinar Information

Friday, May 31, 2024

Log into Webinar

8:00 - 8:30 am CDT

Break

11:45 am - 12:45 pm CDT

Morning Session

8:30 - 11:45 am CDT

Afternoon Session

12:45 - 4:30 pm CDT

Tuition

\$339 for individual registration.

\$309 for two or more registrants from the same company at the same time.

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Faculty

Aaron B  tit

Principal Consultant, Stewart Acoustical Consultants in North Carolina

Mr. B  tit has been collaborating in the acoustical consulting field for over 27 years, performing work in environmental noise and providing advice for schools, colleges, performing arts centers, television/recording studios, commercial towers, and mixed-use/residential buildings. He earned a bachelor's degree in engineering with an emphasis in Acoustics and Music from the University of Hartford. Mr. B  tit is a contributor to the architectural engineering and construction community and advancement of acoustical consulting for the built environment. He is a member of the National Council of Acoustical Consultants (NCAC) as well as the Acoustical Society of America (ASA).

Joseph Bridger

Managing Principal, Stewart Acoustical Consultants in North Carolina

Mr. Bridger has provided architectural acoustics and solutions to building noise control problems, including room acoustics, isolation, and HVAC noise design advice over 31 years. He brings to his work the unique perspectives of a professional musician and strong talents in computer applications as well as engineering training. Mr. Bridger served on the Board of National Council of Acoustical Consultants (NCAC) 2011-18 representing individual members and is now vice president for Finance of NCAC. He is a past chair of the North Carolina Chapter of the Acoustical Society of America and is currently serving as Treasurer. As an active member in ASHRAE, Mr. Bridger has helped update of the standard for the Design of High-Performance Green Buildings.

Both principals have presented several papers to professional society chapter meetings and presented papers at national meetings of ASA NoiseCon and Inter-noise.

Additional Learning

Construction Cost Estimating

- Wednesday, May 8, 2024 | 9:00 am - 4:30 pm CDT

Handling Ethical Issues in Construction Contracting

- Wednesday, May 8, 2024 | 9:00 - 10:00 am CDT

Natural Ventilation Principles and Techniques

- Thursday, May 9, 2024 | 9:00 am - 4:00 pm CDT

2021 International Building Code Essentials

- Friday, May 10, 2024 | 8:30 am - 4:30 pm CDT

Building Electrical System Design Based on NEC 2023

- Monday, May 13, 2024 | 12:00 - 2:00 pm CDT

Adding Basements to Existing Buildings

- Wednesday, May 15, 2024 | 9:00 am - 4:00 pm CDT

Credit Information

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for licensed architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner   68.14(i)(2) and   69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.5 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits

The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate. The following pre-approvals may be available for the on-demand format upon request:
6.5 HSW LUs (AIA)

Adding EV Charging Stations to Homes or Businesses

- Wednesday, May 15, 2024 | 1:00 - 3:00 pm CDT

Managing Engineering Liability and Risk

- Wednesday, May 15, 2024 | 8:30 am - 4:30 pm CDT

Building Power System Grounding and Bonding Based on NEC 2023

- Monday, May 20, 2024 | 12:00 - 2:00 pm CDT

Determining Means of Egress Compliance Using the 2021 IBC

- Monday, May 20, 2024 | 8:30 am - 4:00 pm CDT

Managing Solar Gain

- Tuesday, May 21, 2024 | 9:00 am - 12:20 pm CDT

Developments in Fenestration

- Wednesday, May 22, 2024 | 9:00 am - 12:20 pm CDT

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