



Knowledge is **POWERS** 2024 Education Series

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We are pleased to invite you to our **2024 Knowledge is Powers Education Series**. We are excited to offer a diverse range of engaging **AIA/CES approved 1-hour presentations**.

AIA/CES 1-HOUR PRESENTATIONS	PROVIDER	
ALL PRODUCTS		
Modern Technologies for High Performance Residential Design	POWERS	NEW 2024
Wellness by Design: Enhance the Built Environment and Achieve Rating System Points	POWERS	
Design Advancements in New and Renovated PK-12 Schools	POWERS	
Amenity Spaces & Atriums... where we gather!	POWERS	
Designing with Daylight: Promoting Wellness and Sustainability	POWERS	
SPACE FLEXIBILITY		
HSW Considerations for Large Vertical Openings	RENLITA DOORS	NEW 2024
Elevating your Flexible Space Design	SKYFOLD	
Flex Your Space / Automated Operable Partitions	SKYFOLD	NEW 2024
Revolutionizing Flexible Space with Automated Operable Partitions	SKYFOLD	
Demountable Partition Systems	POWERS/LINE SYSTEMS	
Continuous Design Uses for Large Opening Glass Wall Systems	EURO-WALL	NEW 2024
How Large Openings Contribute to Improved Mental Health	EURO-WALL	NEW 2024
The Science of Sound: Operable Walls and Beyond	MODERNFOLD	
Choose Your Own Adventure: The Operable Walls Chapter	MODERNFOLD	
The Future Is Now: Automated Wall Systems	MODERNFOLD	
Shattering Expectations: Glass Operable Walls	MODERNFOLD	
FIRE + SMOKE SEPARATION		
Fire & Smoke Separation – A Study in Codes and Architectural Solutions	POWERS	
Higher Education & Building Code Compliance	McKEON	NEW 2024
Opening Doors to Design Opportunities	McKEON	
New Perspectives in Fire + Smoke Protection	SMOKE GUARD	
Passive Smoke + Fire Protection in Assisted Living Facilities	SMOKE GUARD	NEW 2024
DAYLIGHTING		
Freeform Architecture – Unlimited Design with ETFE and Engineered Architectural Metals	POWERS/BEMO	NEW 2024
Evolving Technologies and Techniques of Translucent Daylight Systems	POWERS/KALWALL	
Clearspan Structures & Diffused Natural Daylight	POWERS/STRUCTURES UNLIMITED	
Predicting Daylighting Performance with New Modeling and Analysis Tools	SOLATUBE	
Inspiring Applications of Tubular Daylighting	SOLATUBE	

How to Enroll:

Email the course titles you wish to schedule, along with preferred days of the week, to:

Gary Dvorak

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(303) 226-1594





ALL PRODUCTS

“Modern Technologies for High Performance Residential Design (POWERS)”

Course # AIA PPC-RES-101; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

NEW

Learning Objectives:

- Explore how advanced overhead daylighting systems can improve energy efficiency and occupant comfort and wellness in residential design
- Analyze how a variety of fenestration systems featuring diverse glazing and frame technologies can contribute to the design and performance of modern homes
- Understand the critical design and performance criteria of vertical-acting and horizontal-acting door systems to create connections between indoor and outdoor living spaces
- Examine relevant IBC requirements and the impact of Wildland Urban Interface considerations to address fire and smoke protection in residential occupancies including the application of passive door and curtain systems to meet these codes

“Wellness by Design: Enhance the Built Environment and Achieve Rating System Points (POWERS)”

Course # AIA PPC-Well-103; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

With over 90% of our lifetime spent indoors, the built environment has a profound impact on our quality of life. Architects and interior designers are embracing the opportunity to integrate wellness principles into their designs, and this presentation will explore these ideas and the positive impact they have on the people that use these buildings. We will also review strategies for meeting various rating systems, including LEED, Living Building Challenge and WELL Building Standard.

Learning Objectives:

- Review key architectural and interior design elements that promote wellness
- Examine the effective use of daylighting and other strategies to meet various industry standards and wellness rating systems
- Explore how designing open, collaborative spaces can promote occupant well-being
- Review case studies from various building types that demonstrate the successful integration of wellness into their designs





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“Design Advancements in New and Renovated PK-12 Schools (POWERS)”

Course # AIA PPC-PK12-102; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

This session explores how educational facilities are emphasizing openness, flexibility, and natural daylighting as a means of supporting the current learning styles and wellness of students and teachers. We examine the latest trends in balancing an open, transparent, and flexible building design with school safety and security. We also review how school districts are saving millions of dollars by renovating existing buildings to current standards in lieu of constructing a new facility.

Learning Objectives:

- Considering the current construction market, it may be more feasible for school districts to explore renovating a school in lieu of a new facility. We will explore cost effective methods of updating schools to current standards
- Examine how to achieve significant LEED and CHPS points with new daylighting technologies and calculation metrics
- Learn how designers and school districts are implementing the latest safety and security practices while still achieving open and inviting buildings
- Through case studies, we will take an in-depth look at innovative design solutions which support the latest PK12 and higher education needs

“Amenity Spaces & Atriums... where we gather! (POWERS)”

Course # AIA PPC-Well-102; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

Amenity spaces have become an increasingly important element of today’s architectural design for both public and private buildings. Atriums and amenity spaces support collaboration, openness, access to daylight and the outdoors, and occupant well-being. In this course we will explore the benefits of both amenity and atrium spaces, and share design examples of successful projects.

Learning Objectives:

- Explore examples of how both private and public sector building owners are enlivening their facilities through the addition of amenity spaces and atriums and the motivations behind these investments
- Examine various architectural features in these designs that contribute toward sustainability and promote wellness for the building users including connections to outdoor spaces and access to natural daylight
- Understand relevant IBC requirements related to fire and smoke separation and egress that commonly factor into atrium designs and identify various code-compliant solutions to satisfy these unique challenges
- Review common design challenges and architectural solutions to achieve space flexibility in amenity space conference areas including manual and automated operable partitions as well as folding, sliding, and pivoting glass walls

“Designing with Daylight: Promoting Wellness and Sustainability (POWERS)”

Course # AIA PPC-Day-105; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

The delivery of natural light is one of the most important factors in the design of a building. This presentation will share how designers can use daylight for general lighting, accent lighting, wayfinding and accenting architecture. We will also review how daylight contribution is quantified in the latest building standards, including LEED 4.1, CHPS 2 and WELL Building. This program will explore a variety of projects which deploy windows, translucent walls, skylights and tubular daylighting devices to successfully daylight today’s architecture.

Learning Objectives:

- Examine why daylight in the built environment is vital to its occupant’s health and wellness
- Understand the optimum quantity / quality of daylight needed, and how it is measured in current building standards
- Review the challenges and strengths of windows, skylights, sky roofs and tubular daylighting devices for delivering daylight
- Explore successful daylighting systems in a variety of architectural spaces





SPACE FLEXIBILITY

“HSW Considerations for Large Vertical Openings (RENLITA DOORS)”

Course # AIA IRD08E: GBCI # 09200109782; (1) learning unit - HSW; Provider # 40107658 – Renlita

NEW

In this one-hour course, we'll discuss flexible spaces and the different types of vertical openings available. We'll discuss how they're built, differences in operation, customizations and design constraints that can have an impact on the health, safety and welfare of building occupants. We will also talk about the environmental impacts of your opening's design and how that can affect your choice in door type and final design.

Learning Objectives:

- Identify and articulate customizations and design options to decrease acoustical impacts, or increase energy, and air infiltration efficiency
- Confidently discuss safety features, egress needs, and available options to consider for emergency situations
- Describe specialty cladding options and potential ratings for impact and wind rated systems
- Design and specify safe flexible spaces with minimal environmental impact or hazardous materials

“Elevating Your Flexible Space Design (SKYFOLD)”

Course # AIA and IDCEC; SKY 0007; (1) learning unit - HSW; Provider #J756 – Skyfold

In this seminar, design professionals, general contractors, owners, and facility managers will gain a thorough understanding of the top 5 challenges inherent to flexible spaces and be shown examples of how address them.

Learning Objectives:

- Learn about the common challenges when designing flexible space such as acoustical performance, structural deflection, optimizing usable space, life safety, and health wellness post pandemic
- To understand the advantages & disadvantages of various solutions in terms of sound isolation, support structure requirements, egress, and space utilization
- To explore the impact to client's budget and how others saved cost and created long term value for the end user
- To discover how upward thinking solutions can enhance both architectural & user performance with real world examples





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“Flex Your Space / Automated Operable Partitions (SKYFOLD)”

Course # AIA and IDCEC; SKY 0008; (1) learning unit - HSW; Provider #J756 – Skyfold

NEW

In this seminar, design professionals, general contractors, owners or facility managers will gain a thorough understanding of flexible spaces using automated operable partitions. We will compare and contrast solid and glass partitions, understand the acoustics in flexible spaces and cover structural needs, cost and life cycles.

Learning Objectives:

- To recognize the advantages of automated flexible spaces to manage spaces more effectively and efficiently. Automation makes flexibility easy
- To compare horizontal and vertical solid and glass automated partition, including sizes, acoustical and finish options, and safety measures
- To understand the acoustical separation (how sound moves) as it relates to flexible spaces and partitions – discussing STC, NIC and surrounding construction
- To understand the storage and structural considerations of these dynamic systems and the impact on overall design.
- To compare overall cost implications – both initial and life cycle. Selecting products with an eye to overall cost to the client and also to the environment

“Revolutionizing Flexible Space with Automated Operable Partitions (SKYFOLD)”

Course # AIA and IDCEC; SKY 0005; (1) learning unit - HSW; Provider #J756 – Skyfold

Have you thought about incorporating automated and acoustic operable partitions into your flexible space design plans, but have struggled with the design concept, planning and choosing a solution? Then this is the class for you.

Learning Objectives:

- Recognize the advantages of automated flexible space to manage spaces more efficiently and effectively
- Compare and contrast three types of automated operable partitions
- Understand acoustic separation as it relates to flexible spaces and automated operable partitions
- Understand storage and structural considerations
- Discover the impact of automated operable partitions on overall design
- Understand the overall cost implications (initial and lifecycle)

“Demountable Partition Systems (POWERS/LINE SYSTEMS)”

Course # AIA; PPC-Office-101; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

This course will provide you with a strong understanding of the benefits of demountable partition systems, as well as demonstrate the tax, cost, and efficiency benefits.

Learning Objectives:

- Understand modular demountable systems and the multitude of options available to meet modern workspace design requirements
- Approach and apply space planning and space flexibility concepts through the utilization of modular demountable partitions
- Examine the various physical and mental health benefits provided by utilizing modular demountable partitions
- Quantify cost and monetary efficiencies that architects can achieve for their clients by utilizing modular demountable partitions





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“Continuous Design Uses for Large Opening Glass Wall Systems (EURO-WALL)”

Course # AIA EWAIACES09; (1) learning unit - HSW; Provider – Euro-Wall Systems

NEW

This course is designed to provide architects with an understanding of the definitions, continuous capabilities, and advantages of large moveable glass wall systems. It explains the importance of form and function in design, exhibits innovative project ideas, and depicts how glass wall systems can improve an occupant’s safety and health.

Learning Objectives:

- Inform others of the capabilities, usages, and definitions of large moveable glass wall systems
- Exhibit innovative and new ideas for commercial & residential project design processes
- Depict how large glass walls can be an important part of form and function in sustainable design
- Deliver answers for how operable glass wall systems can improve an occupant’s safety and health

“How Large Openings Contribute to Improved Mental Health (EURO-WALL)”

Course # AIA EWAIACES04; (1) learning unit - HSW; Provider - Euro-Wall Systems

NEW

This seminar explains how large openings can help improve health and what kind of systems are available for Wind-Borne and Coastal Areas, along with their structurally engineered components. The course focuses on the benefits and applications, types of door systems, and door hardware and testing.

Learning Objectives:

- The relation between large openings and the improvement of mental health
- Define large opening glass wall systems and describe their functional and impact performance benefits
- Explain how certain components and materials contribute to the strength and durability of the frame and overall system
- Summarize door selection and panel configurations and how this helps determine the most appropriate system and application for the project

“The Science of Sound: Operable Walls and Beyond (MODERNFOLD)”

Course # AIA IMOD08E; (1) learning unit - HSW; Provider - Modernfold

Acoustical control is a critical factor in every environment. Utilizing the appropriate operable partition to address acoustical concerns and space flexibility can simultaneously solve many problems. Join us for this one-hour course as we discuss acoustics, operable walls, and how the two together in conjunction with complementing architectural elements can produce excellent acoustical control for any space.

Learning Objectives:

- Understand the science of sound and acoustics
- Comprehend applicable lab and field tests to measure performance of sound transmission and absorption
- Analyze additional architectural approaches that will compliment an operable wall and enhance the full acoustical design of your build
- Select an operable wall system best suited for your project based on your objectives and space solutions desired





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“Choose Your Own Adventure: The Operable Walls Chapter (MODERNFOLD)”

Course # AIA IMOD08F; (1) learning unit - HSW; Provider - Modernfold

Operable walls offer the opportunity to maximize any space by implementing superior engineering, aesthetics and technology. Join us in this one-hour course as we dive into key understandings of operable partitions to address panel construction, suspension systems, sealing mechanisms, design options, automation, and safety. By the end of this course, design professionals will learn how all of these components work together to impact a project's environment in terms of space management as well as the end users' experience and well-being.

Learning Objectives:

- Understand the variety of panel construction and suspension system offerings
- Differentiate between all partition seals and their unique benefits and options
- Evaluate all design options within the marketplace to customize your wall
- Comprehend the associated automation options and safety guidelines for use

“The Future is Now: Automated Operable Walls (MODERNFOLD)”

Course # AIA IMOD08G; (1) learning unit - HSW; Provider - Modernfold

With the growing popularity of multi-use spaces, there is an increasing demand for fully-automated, flexible space solutions. Join us for this one-hour course as we discuss automated operable wall options in the market, end-user operation, and associated cost and time savings. By the end of this presentation, you will be able to select fully-automated wall solutions based on need, expected benefits, and overall improved well-being of occupants.

Learning Objectives:

- Understand how flexible space is evolving in the marketplace
- Articulate the benefits of fully-automated operable walls
- Identify the different fully-automated wall systems currently available and their pros and cons
- Illustrate how automated walls can be used in a variety of applications to meet the diverse needs of different markets

“Shattering Expectations: Glass Operable Walls (MODERNFOLD)”

Course # AIA IMOD08H; (1) learning unit - HSW; Provider - Modernfold

The market is demanding welcoming and flexible space; both of which operable glass walls are uniquely situated to address. Join us for this one-hour course as we discuss utilizing glass operable walls in a variety of applications. By the end of the presentation, you'll be able identify the benefits of glass wall systems, the variety of options on the market and how best to utilize each, as well what each market vertical is demanding.

Learning Objectives:

- Understand the end-user benefits gained with glass wall systems
- Compare and contrast glass operable wall systems
- Comprehend the impact of glass operable wall systems on LEED category credits
- Illustrate how glass operable wall systems can be used in a variety of environments to meet the diverse needs of different markets





FIRE + SMOKE SEPARATION

“Fire & Smoke Separation – A Study in Codes and Architectural Solutions (POWERS)”

Course # AIA PPC-F+S200; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

Explore innovative architectural solutions to meet IBC requirements for opening protectives within fire walls, fire barrier walls, and atriums. Wide-span openings and atriums promote health and wellness on various dimensions, including the introduction of borrowed daylighting from the building perimeter and the creation of dynamic public spaces for collaboration and socialization. Innovative passive fire and smoke separation systems play an integral role in realizing these benefits, and most importantly, they are instrumental in providing life safety for both building occupants and first responders.

Learning Objectives:

- Understand the history and requirements of fire and smoke protection for openings within Fire Walls, Fire Barrier Walls and Atriums
- Examine how the use of wide-span opening protectives can create a healthy built environment
- Review available solutions and recent product innovations to meet IBC requirements
- Through case studies, analyze the pertinent codes and design solutions for a variety of building types, including hotels, multi-family, schools, offices, high-rise, municipal and healthcare facilities

“Higher Education & Building Code Compliance” (McKEON DOORS)”

Course # AIA EDU 100; (1) learning unit - HSW; Provider #J497 – McKeon

NEW

This 1-hour seminar focuses attention on two large university structures, highlighting multiple technologies within the McKEON product line. Special emphasis is given to unique vertical space design solutions that mitigate atrium requirements.

Learning Objectives:

- Learn the fundamental code requirements as they apply to the design of vertical spaces
- Become familiar with the application of various wide-span opening protectives to protect openings in passive wall systems
- Understand the significant impact code compliance has upon building function, ambiance and overall appearance
- Examine unique circumstances wherein NFPA 101 and IBC collaborate to maximize fire & life safety for building occupants

“Opening Doors to Design Opportunities (McKEON DOORS)”

Course # CODE 10; (1) learning unit - HSW; Provider #J497 – McKeon

This 1-hour seminar is structured to acquaint the design team with basic building code requirements that drive the use of fire and smoke rated wide span opening protectives.

Learning Objectives:

- Differentiate between fire walls and fire barriers
- Understand the regulatory standards governing the use and application of opening protectives
- Learn the fundamental code requirements that drive the placement of fire walls and fire barriers, their openings and opening protectives
- See the direct correlation between Life Safety, product application and open design





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“Passive Smoke + Fire Protection in Residential Occupancies” (SMOKE GUARD)”

Course # AIA CES8; (1) learning unit - HSW; Provider: Smoke Guard

NEW

Designated as an I-1 occupancy, the types of assisted living settings vary from high-rise apartments to multi-acre campuses and everything in between. Within this setting, passive fire and smoke protection are a major concern, in addition to effective use of space. The evolution of high temperature materials has made it possible to provide minimal, high performance, code-compliant smoke-and fire-rated protection for openings throughout the constructed environment. This presentation will touch on IBC and NFPA requirements for fire and smoke protection throughout assisted living facilities.

Learning Objectives:

- Discuss the nature of residents and architectural qualities of spaces in assisted living facilities
- Understand the purpose of smoke compartments and the dynamics of egress in an assisted living facility
- Review IBC and NFPA 101 requirements which address smoke + fire protection requirements in this unique occupancy
- Explore the architectural advantages and disadvantages of the available solutions for smoke + fire protection
- Increase awareness of special considerations and common pitfalls made in designing smoke protection solutions

“New Perspectives in Fire + Smoke Protection (SMOKE GUARD)”

Course # SG CES 3; (1) learning unit - HSW; Provider – Smoke Guard

Fire and smoke protection has come a long way in the last decade. The evolution of high temperature materials has made it possible to provide minimal, high performance, code-compliant smoke- and fire-rated protection for openings throughout the constructed environment. This presentation will touch on the building code requirements for fire and smoke protection throughout the constructed environment. Our discussion will address the building code requirements for fire and smoke protection of openings and the innovative curtain solutions available for elevator openings, atrium spaces, stairs, and escalator openings.

Learning Objectives:

- Examine vertical smoke movement in buildings
- Review the requirements of IBC to address smoke movement
- Explore the architectural options available for elevator protection
- Explain the use of fire & smoke curtains to reduce or eliminate mechanical systems



DAYLIGHTING

“Freeform Architecture – Unlimited Design with ETFE and Engineered Architectural Metals (POWERS/BEMO)”

Course # AIA PPC-Day-109; (1) learning unit - HSW; Provider – Powers Products

NEW

Recent advancements in manufacturing technology and material innovation have created opportunities for designers to create unique, transformative freeform building envelopes. One of the materials, Ethylene Tetra Fluoro Ethylene (ETFE) was developed in the 1970s as an insulation material for the aerospace industry. ETFE has been creatively integrated in European and Asia architecture for decades and is making its mark in North America. ETFE foil is used as an alternative to glass due to the unique weight/strength ratio, insulation capabilities and light transmission. Both ETFE and architectural metal panel systems afford architects with unlimited design flexibility and creativity.

Learning Objectives:

- Understand how the unique characteristics of ETFE, including strength, weight, insulation factor, span capabilities, and light transmission, make it an outstanding design alternative to glass
- Discover how ETFE is being used as the daylight delivery system in the freeform design of skylights, skyroofs, walls and canopies
- Examine how ETFE and architectural metal systems enhance a building’s resilience, thermal performance, and occupant wellness
- Through case studies including Watercube – Beijing 2008 Olympics, SoFi Stadium and Google HQ, learn how forward-thinking architects are designing iconic, monumental building envelopes using freeform architectural systems

“Evolving Technologies and Techniques of Translucent Daylight Systems (POWERS/KALWALL)”

Course # AIA PPC-Day-106; (1) learning unit - HSW; Provider – Powers Products

We explore the evolution of structural, translucent insulated daylight delivery systems, from its conception to cutting edge new technologies on the horizon. We will study practical installation recommendations, making specification and detailing easier, as well as the benefits of diffused daylight. The presentation also provides many examples of how architects and designers are creatively applying translucent panel technology.

Learning Objectives:

- Explore the various installation techniques available to meet even the most challenging architectural details
- Learn how color and backlighting can be applied to enhance your daylight design
- Examine how insulated translucent panels can impact sustainable design and energy conservation
- Understand the history of translucent panel development and the latest new technologies, including photovoltaic integration, advanced sandwich skin FRP technology and dynamic visual light transmittances



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“Predicting Daylighting Performance with New Modeling and Analysis Tools (SOLATUBE)”

Course # AIA STI_110_2021; (1) learning unit - HSW; Provider #J844 - Solatube International, Inc

Daylight is the reference standard by which all other light sources are compared and can be particularly beneficial in achieving sustainable building design goals. This course will discuss the physical and psychological importance of daylighting and will examine how optically complex fenestration products such as tubular daylighting devices (TDDs) can be used to optimize daylighting solutions. We will also explore new, better-defined performance metrics for measuring daylighting as well as a new daylight simulation tool that can help architects quickly apply key daylighting metrics and accurately predict daylight performance when designing with optically complex fenestration products.

Learning Objectives:

- Understand the importance of daylighting in building design and traditional methods of daylighting interior spaces
- Examine tubular daylighting devices and how they can be used to achieve optimal daylighting solutions
- Review the nuances of predicting, modeling, and applying daylighting, as well as new metrics available to achieve sustainable design goals
- Explore new modeling and analysis tools that can help architects quickly apply key daylighting sufficiency metrics and accurately predict daylight performance

“Clearspan Structures & Diffused Natural Daylight (POWERS/STRUCTURES UNLIMITED)”

Course # AIA PPC-Day-110; (1) learning unit - HSW; Provider – Powers Products

Combining aluminum box beam structures with lightweight translucent panels creates endless possibilities for monumental skylight, skyroof, and canopy applications. This presentation will highlight the benefits of clearspan, diffused daylighting systems as it relates to building occupant health, well-being, and safety as well as energy savings. Attendees will also learn about the safety that these unique daylighting systems can provide pertaining to OSHA fall protection, windborne debris, blast resistance and explosion venting protection.

Learning Objectives:

- Understand the health, safety, productivity, and aesthetic benefits of natural daylighting in occupied spaces
- Examine how single-source manufacturing of sandwich panels and aluminum box-beam structures can save time and money and contribute toward sustainable construction
- Learn how translucent panel systems provide safety through OSHA fall through protection, windborne debris resilience, blast resistance and explosion venting protection
- Explore how natural daylight improves occupant attendance, productivity, and health while saving energy

“Inspiring Applications of Tubular Daylighting Devices (SOLATUBE)”

Course # STI 106 2019; (1) learning unit - HSW; Provider #J844 - Solatube International, Inc.

This session will study inspiring applications of Tubular Daylighting Devices (TDDs) around the world that deliver natural light into unique spaces and/or create visually appealing natural lighting to complement an overall design. By merging both form and function, architects can create inspiring environments that also meet the health, safety, welfare as well as sustainability goals for the building.

Learning Objectives:

- Understand how TDDs can be used as an effective daylighting strategy differently than windows and skylights
- Discover the role TDDs can play with health, safety, and welfare of building occupants
- Review how TDDs can be used as a daylighting strategy for sustainability and energy efficiency initiatives
- Explore how TDDs can be implemented in inspiring and innovative ways with both design and functional objectives being met

