

Knowledge is **POWERS** 2022 Education Series

Pg. 1 of 11



We are pleased to invite you to our **2022 Knowledge is Powers Education Series**. We are excited to offer a diverse range of engaging **AIA/CES approved 1-hour presentations**. While we prefer the in-person connection, we also are providing virtual or hybrid presentations.

Following is a list of our **2022 Knowledge is Powers** offering:

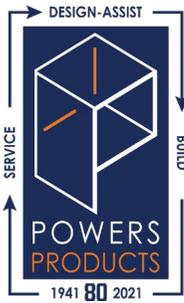
GETTING TO KNOW POWERS PRODUCTS (20-30 minutes)		
General Contractor Connection – Learn how Powers can be your trusted construction partner		
Powers Products Offering - All Products and Services Review		
AIA/CES 1-HOUR PRESENTATIONS	PROVIDER	
ALL PRODUCTS		
Amenity Spaces & Atriums... where we gather!	POWERS	NEW
Designing for WELLNESS: Creating Healthy Environments where we Live, Learn, Work and Play	POWERS	UPDATED
Effective Daylighting Strategies	POWERS	UPDATED
Open, Flexible, And Safe PK12 Learning Environments	POWERS	UPDATED
SPACE FLEXIBILITY		
Through the Looking Glass – Movable Glass Partition Systems	MODERNFOLD	UPDATED
On the Move – Automated Movable Wall Systems	MODERNFOLD	UPDATED
Mastering Architectural Acoustics in Flexible Spaces	SKYFOLD	
Architectural Vertical Opening Solutions – Plus!	RENLITA DOORS	UPDATED
Breaking the Fourth Wall: Modern Operable Wall Systems	MODERNFOLD	
Revolutionizing Flexible Space with Automated Operable Partitions	SKYFOLD	
Demountable Partition Systems	LINE SYSTEMS	NEW
FIRE + SMOKE SEPARATION		
Fire & Smoke Separation – A Study in Codes and Architectural Solutions	POWERS	UPDATED
Higher Education & Building Code Compliance	McKEON	NEW
Opening Protectives: New Perspectives in Fire + Smoke	SMOKE GUARD	
Opening Doors to Design Opportunities	McKEON	
Design Solutions: Smoke Protection at the Elevator Hoistway	SMOKE GUARD	
DAYLIGHTING		
Predicting Daylighting Performance with New Modeling and Analysis Tools	SOLATUBE	NEW
Translucent Panels for Daylighting and Sustainable Design	POWERS/KALWALL	
Clearspan Structures & Diffused Natural Daylight	POWERS/STRUCTURES UNLIMITED	UPDATED
Inspiring Applications of Tubular Daylighting	SOLATUBE	UPDATED

NOTE: See following pages for description and learning objectives

How to Enroll:

Visit <https://powersproducts.com/registration/>





Knowledge is **POWERS** 2022 Education Series

Pg. 2 of 11



If you have returned to the office, Powers Products will have food delivered. If your team is still working remotely, we will provide GrubHub gift cards to attendees (limit of 25 cards / presentation).

**Featured
in 2022**

GETTING TO KNOW POWERS PRODUCTS

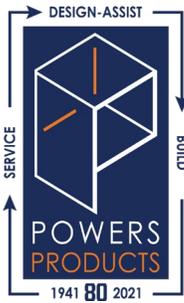
“General Contractor Connection – Learn how Powers can be your trusted construction partner”

With increasingly compressed construction schedules and more complex buildings, it is more important than ever for Powers to be your reliable, trusted sub-contractor. Have your pre-con team spend a few minutes with our product managers as we share our latest product offering and technologies and allow us to hear how we can better serve you.

“Powers Products Offering”

Review Powers Products services and our daylighting, space flexibility and fire/smoke separation product offering. Approximately a 20–30-minute, informal presentation.





Knowledge is **POWERS** 2022 Education Series

Pg. 3 of 11



ALL PRODUCTS

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

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

NEW

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
- 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 for WELLNESS: Creating Healthy Environments where we Live, Learn, Work and Play (POWERS)”

Course # AIA PPC-Well-101; (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.

Learning Objectives:

- Identify key architectural and interior design elements that promote wellness
- Examine the industry standards and ratings systems that are being developed to drive accountability in this arena
- Understand the economic and performance benefits associated with designing for wellness in various building types
- Review case studies from various building types that demonstrate the successful integration of wellness into their designs

“Effective Daylighting Strategies (POWERS)”

Course # AIA PPC-Day-103; (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. When implemented thoughtfully, daylight can provide ambient and accent light in a space and meet the biophilic needs of the occupants. 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 and quality of daylight needed, and how it can be strategically applied as a design element in a building
- 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



Knowledge is **POWERS** 2022 Education Series

Pg. 4 of 11



“Open, Flexible and Safe PK12 Learning Environments (POWERS)”

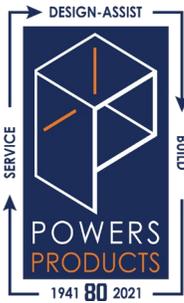
Course # AIA PPC-PK12-101; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

This session will explore how PK12 schools are emphasizing openness and flexibility as a means of supporting the current learning styles and wellness of students and staff. We will review how architects and school districts are balancing an open, transparent, and flexible building design with school safety. Lastly, a series of case studies will be used to demonstrate the latest design concepts being implemented to achieve a successful learning environment.

Learning Objectives:

- Study how architects are creating open, vibrant, and comfortable learning spaces using daylight, views, atriums, operable walls and exterior openings
- Examine various technologies and design solutions for providing maximum flexibility and acoustical separation in learning spaces
- Learn how designers and school districts are implementing the latest safety 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 needs





Knowledge is **POWERS** 2022 Education Series

Pg. 5 of 11



SPACE FLEXIBILITY

“Through the Looking Glass – Movable Glass Partition Systems (MODERNFOLD)”

Course # AIA IMOD08D; (1) learning unit - HSW; Provider - Modernfold

One of the best ways to craft unique and welcoming environments is by adding openness and natural light to a space. Join us in this one-hour course as we discuss utilizing glass operable walls to facilitate natural light and views in a variety of applications to meet the diverse needs of different markets. You will be able to identify features and benefits of glass operable wall systems, especially increased social and emotional well-being for occupants and increased sustainability.

Learning Objectives:

- Identify the need for natural light and views in the workspace, describing their ability to improve the emotional and social health of occupants
- Compare and contrast glass operable wall systems, especially in their ability to contribute to LEED category credits
- Discuss the characteristics and benefits of glass operable walls, especially suspension systems that ensure occupants and operators are kept from physical harm
- Illustrate how glass operable walls can be used in a variety of applications to meet the diverse needs of different markets

“On the Move – Automated Movable Wall Systems (MODERNFOLD)”

Course # AIA IMOD08C; (1) learning unit - HSW; Provider - Modernfold

With the continual popularity of open-concept spaces, there is an increasing demand for flexible space that allows occupants to reconfigure and redesign their area to fit each day’s unique needs. Join us in this one-hour course as we discuss utilizing movable and automated walls to facilitate space management in a variety of applications to meet the diverse needs of different markets. By the end of this presentation, you will be able to identify features and benefits of automated movable wall systems, especially improved social and emotional well-being for occupants and increased safety for operators.

Learning Objectives:

- Define space division and flexible space, describing their ability to improve the emotional and social health of occupants
- Compare and contrast operable wall systems, especially in their ability to efficiently and effectively encourage social interaction through space management
- Discuss the characteristics and benefits of automated walls, especially safety features that ensure occupants and operators are kept from physical harm
- Illustrate how automated walls can be used in a variety of applications to meet the diverse needs of different markets



Knowledge is **POWERS** 2022 Education Series

Pg. 6 of 11



“Mastering Architectural Acoustics in Flexible Spaces (SKYFOLD)”

Course # AIA and IDCEC; SKY 0006; (1) learning unit - HSW; Provider #J756 – Skyfold

There are many acoustical considerations when designing flexible spaces that do not sacrifice privacy and comfort, especially when integrating operable partitions into these spaces. This course explores acoustics in the built environment (also known as "invisible architecture") and its effects on well-being, health, safety and productivity, as well as an overview of the WELL Building Institute's acoustical comfort recommendations.

Learning Objectives:

- Understand what sound is and how it behaves in an interior environment
- Learn how building materials are classified for their sound control capabilities
- Learn about acoustical challenges in flexible spaces with and without operable partitions
- Discover how best to control sound
- Find solutions for noise control through automation and intelligent acoustical design

“Architectural Vertical Opening Solutions – Plus! (RENLITA DOORS)”

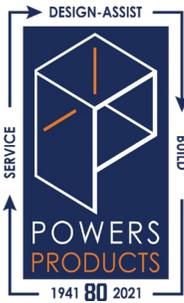
Course # AIA IRD08C : GBCI # 09200109782; (1) learning unit - HSW; Provider # 40107658 – Renlita

In this course, we will discuss vertical operating systems to better understand their construction and the operating systems used in each type. Characteristics of various types of vertical operating systems will be presented as well as limitations to consider when specifying the right product for each unique project. An emphasis will be placed on safety features, the ease of operating the systems, and compliance to codes to ensure each product is performing effectively in a cost-effective manner that can be incorporated into the building structure of projects. Additionally, an array of applications will be demonstrated to showcase ways that vertical operating systems may provide an aesthetic solution that ultimately benefits the welfare of building occupants by bringing in elements of nature while contributing to sustainable initiatives.

Learning Objectives:

- Compare and contrast various types of vertical operating systems as well as identify the advantages and disadvantages of each to reveal operational, maintenance, and safety features
- Explain how vertical operating systems interact with the building structure to utilize the design space more efficiently and reduce energy costs
- Determine how counterweight balance systems benefit users in terms of ease of operability as well as contribute to the welfare of occupants by allowing more natural daylighting into buildings
- Describe how vertical operating systems comply with required regulations, reduce material waste, and contribute to a sustainable design with LEED certification





Knowledge is **POWERS** 2022 Education Series

Pg. 7 of 11



“Breaking the Fourth Wall: Modern Operable Wall Systems (MODERNFOLD)”

Course # AIA IMOD08B; (1) learning unit - HSW; Provider - Modernfold

From simply reconfiguring a room to completely changing how it is entered and exited, operable wall partition systems make rooms more efficient and maximize space by implementing superior technologies. Join us in this one-hour course as we go beyond the basics of operable partitions to address layout, operating clearances, panel construction, and acoustical elements. By the end of this course, design professionals will learn how all of these components work together to impact a project’s environment in term of health, well-being, and space management.

Learning Objectives:

- Define operable wall systems and discuss how they can improve occupants’ wellbeing by implementing space flexibility and daylighting through various panel configurations
- Compare and contrast the different suspension systems available for use with operable partitions
- List the various types of acoustical seals that can be used with operable partitions in order to improve occupants’ health and wellbeing in multi-use spaces
- Identify safety considerations of operable partitions, including stopping electric partitions, protecting spaces from fire, and ensuring appropriate clearances

“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)

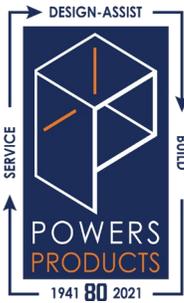
“Demountable Partition Systems (LINE SYSTEMS)”

Course AIA and IDCEC; (1) learning unit - HSW; Provider – Line Systems

NEW

Learning Objectives:

- Materials and Systems
- Space Planning and Flexibility
- Physical and mental Health Benefits
- Cost and Monetary Benefits



Knowledge is **POWERS** 2022 Education Series

Pg. 8 of 11



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 EDU100; (1) learning unit - HSW; Provider #J497 – McKeon

NEW

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

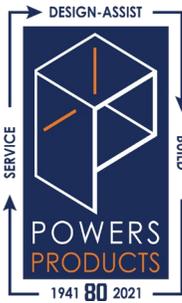
“Opening Protectives: New Perspectives in Fire + Smoke (SMOKE GUARD)”

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 2009, 2012, 2015, and 2018 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.



Knowledge is **POWERS** 2022 Education Series

Pg. 9 of 11



“Opening Doors to Design Opportunities (McKEON DOORS)”

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

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

“Design Solutions: Smoke Protection at the Elevator Hoistway (SMOKE GUARD)”

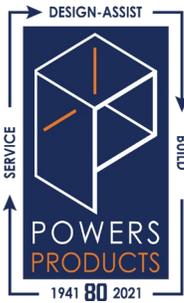
Course # SG CES 1; (1) learning unit - HSW; Provider #J313 – Smoke Guard

The course will provide you a better understanding of how smoke migrates in multi-story building fires and how building codes in the United States have evolved to address this danger. Throughout this course we will illustrate the physics of vertical smoke migration in mid and high-rise building fires and the hazards this presents for building occupants. The instructor will discuss how building codes seek to protect building occupants from this hazard and review various methods that have been developed to meet these code requirements to limit vertical smoke migration.

Learning Objectives:

- To understand the behavior of the fire and smoke in a mid- or high-rise building
- To understand how the building codes address smoke migration in a fire and the effect of smoke migration on the means of egress via elevator lobbies in event of a building fire
- To review the product applications that have been developed to assist in meeting building code requirements concerning the control of smoke migration via elevator hoistways, and in providing means of egress for building occupants
- To review the design options that comply with building code requirements for egress planning





Knowledge is **POWERS** 2022 Education Series

Pg. 10 of 11



DAYLIGHTING

“Predicting Daylighting Performance with New Modeling and Analysis Tools”

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

NEW

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-104; (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.





Knowledge is **POWERS** 2022 Education Series

Pg. 11 of 11



“Translucent Panels for Daylighting and Sustainable Design (POWERS/KALWALL)”

Course # PPC DAY 2; (1) learning unit - HSW; Provider #40107463 - Powers Products Co.

Learning Objectives:

- Explore the advantages and benefits of diffused daylighting, in terms of health, safety and security
- Examine how insulated translucent panels can impact sustainable design and energy conservation
- Demonstrate how structural sandwich panel systems are being creatively deployed through skylights, wall systems, skyroofs and canopies
- Review the unique engineering and science behind composite translucent sandwich panel technology

“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