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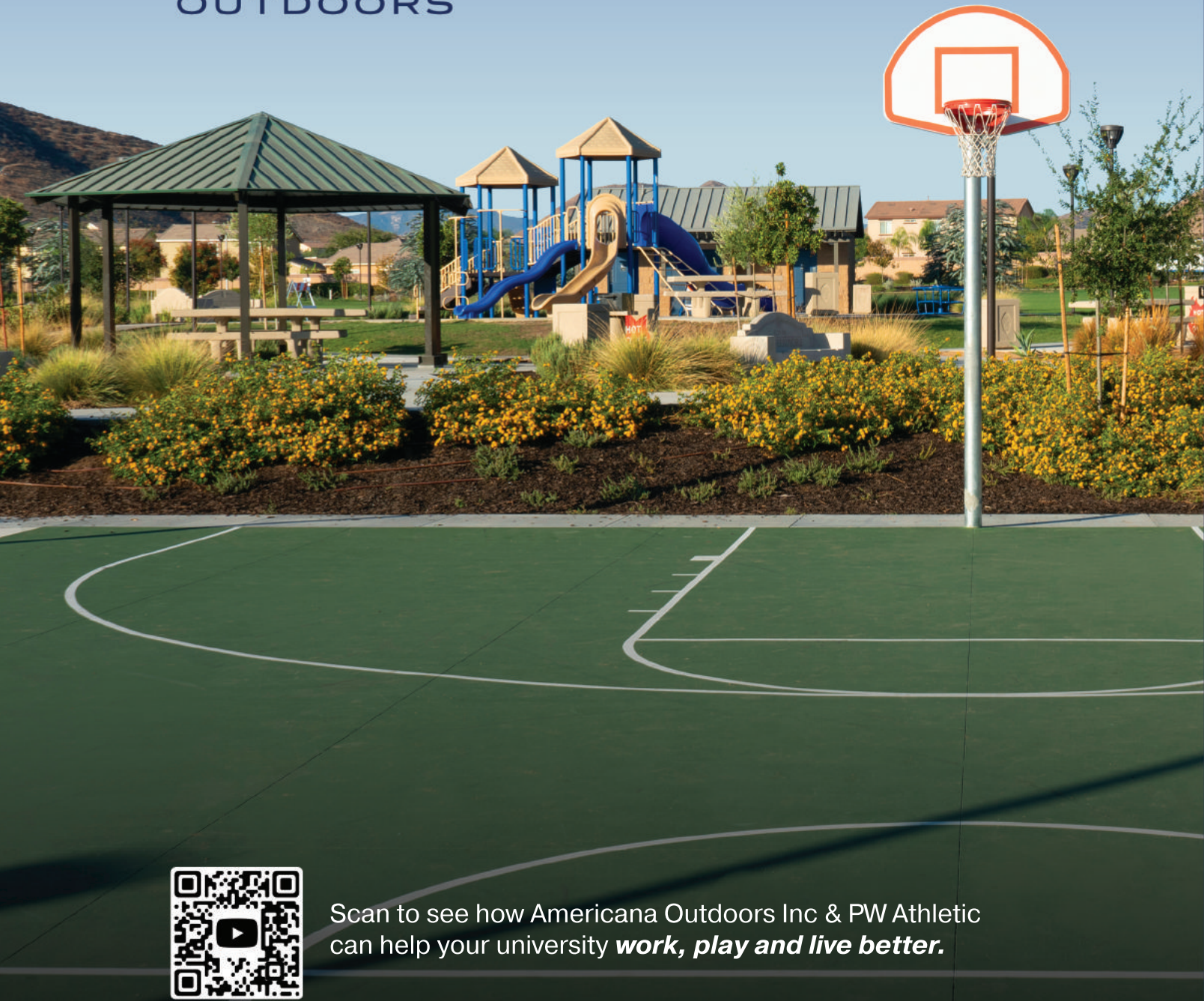
UNIVERSITY SECURITY
TAKES CENTER STAGE:
SIX THINGS TO
CONSIDER

INNOVATIVE
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VIRTUAL ACOUSTIC
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A Vision of Abundant Sustainability at College of the Atlantic

Jay Friedlander, Sharpe-McNally Chair of Green and Socially Responsible Business at College of the Atlantic (COA), articulates and enacts an innovative approach to education that is both inspiring and practical. Here's how his reframing of "failure" and his expansion of the learning process to include community insights and real-life trial-and-error ventures is providing students with frameworks and resources they draw on for years after graduation.

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Editor's Letter

JANUARY 2024

Happy New Year!

With the advent of a brand-new year and all of its possibilities, it brings me great pleasure to extend my warmest wishes to each one of you. The dawn of a new year symbolizes not just the flipping of a calendar page but an opportunity for new beginnings, fresh perspectives, and exciting ventures. As we embark on this journey together, I find it fitting to talk about your campuses and share your enthusiasm for projects that lie ahead.

The turning of the year is always a time for reflection and anticipation. Your commitment to providing an exceptional educational environment remains unwavering, and the upcoming year promises even more transformative changes. It's a time to embrace innovation, foster growth, and create spaces that inspire excellence.

In the spirit of progress, I am thrilled to introduce this issue of our publication as the "Buyer's Guide," a comprehensive resource designed to assist you in navigating the diverse landscape of vendors and services available to enhance your campus experience. We understand that each campus is unique, with its own set of goals and challenges. Our carefully curated list of quality vendors aims to cater to these distinct needs, offering solutions that align with your vision for the future.

From cutting-edge technology to sustainable infrastructure, the Buyer's Guide serves as your compass in navigating the vast array of options available. Whether you are embarking on a campus expansion, upgrading facilities, or implementing state-of-the-art learning tools, the guide is a valuable tool to connect you with vendors who share your commitment to excellence.

In the spirit of collaboration, we have fostered partnerships with industry leaders who understand the dynamic landscape of higher education. The pages within this issue are filled with profiles and insights from these vendors, providing you with a glimpse into the innovative solutions they offer. We believe that informed decisions lead to transformative outcomes, and our goal is to empower you with the knowledge to make choices that will shape the future of your institution.

As we usher in the New Year, let's embrace the countless opportunities it presents. The canvas of 2024 is blank, ready to be painted with the colors of progress and success. May this be the year where your visions come to life, and your campuses flourish with vibrancy and achievement.

In closing, I extend my heartfelt wishes for a year filled with prosperity, growth, and fulfillment. May your campuses be a testament to the power of education and the limitless possibilities that lie within the hearts and minds of your students. Here's to a new year of boundless potential and exciting new beginnings.

Warm regards,

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A Vision of Abundant Sustainability at College of the Atlantic

BY CYNTHIA MWENJA, PhD

Jay Friedlander, Sharpe-McNally Chair of Green and Socially Responsible Business at College of the Atlantic (COA), articulates and enacts an innovative approach to education that is both inspiring and practical. Through the inclusion of community insights, collaborative learning, co-curricular opportunities, disciplinary knowledge, and practical application of course content, his courses provide students with frameworks and resources they draw on for years after graduation.

As a result, COA professors routinely work across disciplinary boundaries. As Nick Harris—2012 COA graduate and co-founder of Berkeley Yeast—reports, COA is a small school, with about 350 students and one professor in each discipline. He says the college has “knocked down all department separation; the professors collaborate with the students and are not siloed.” As a professor at COA, Friedlander focuses on inviting the community and other types of knowledge into the classroom, “bringing together the subject and the world, thinking and doing.” In this model, students interact with one other and the community, implementing the things they’ve learned by “practicing in situ” to “open new worlds of knowledge.” Students thereby develop the skills to create ventures and organizations that can respond to complex, real-world needs.

Disrupting Preconceptions

Friedlander’s approaches disrupt conventional thinking and often give students profound insights to use throughout their lives. For example, Friedlander reframes the concept

of failure for his students. He says that when college students are taught that they have to succeed at everything, often they become risk-averse and fear failure. These attitudes, he notes, are not helpful for exploring new answers and finding new solutions. In all of his courses, Friedlander invites students to talk about things that go wrong. “What they think of as failure is life,” he says. “The question is how you interface with it.” He hastens to add that he’s not encouraging people to fail recklessly; rather, he aims to help students understand that most things go wrong, and they need to be able to adjust and address missteps.

Friedlander also challenges the typical idea of sustainability; he views the idea as much richer than simply sustaining life. In his framework, sustainability stems from an “abundant mindset” and strives for inspiring ends: to heal the community, help people prosper, cause no harm, and repair the environment. The goal is to find ways to “recreate the world and do it in a way that is less harmful,” he says.

The Hatchery

Friedlander runs the Diana Davis Spencer Hatchery Sustainable Enterprise Accelerator, one of a few venture incubators offering academic credit at an institution of higher education. Affectionately called “the Hatchery,” this business accelerator course is equivalent to three classes, meaning that the single course represents full-time enrollment for the term. Students from multiple disciplines are represented in the class, and they focus on a variety of business types, including non-profit, scalable, and lifestyle businesses.

The class combines a post-disciplinary approach with hands-on practice; students develop expertise and business skills by actually creating businesses. Each year, five or six students take the class, and they have \$30,000 in start-up funds to split. They also have access to dedicated office space and mentors from the college and community. All of this support allows the students to fully focus on developing a business venture that aligns with their passions.



Friedlander’s goal is not to pump out enterprises but to help students learn how to consider and weigh all factors in developing a business. He says that the course “is like a design squiggle—it’s not linear; failure is baked in.” As a result, success can take many forms in the Hatchery. Success could be continuing with the venture after graduation, but it might be deciding that it’s a terrible idea, understanding why and what would need to change to make it viable.

One example Friedlander gives is of a student who had been very invested in the idea of a mobile slaughterhouse. This business would answer a community need, and the student had spent two years prior to the Hatchery developing the idea. Halfway through the Hatchery class, the student realized that he didn’t want that business to be his life—and Friedlander classifies that careful examination of the idea, plus the final realization, as a success. The student also now carries deep insights about how to approach starting a business that he can apply to other opportunities.

Lifelong Benefits for Students

The Hatchery model has long-lasting and multiple effects on the students’ lives, far beyond the one venture they develop, and for many years after graduation.

Harris, the COA alum, was part of an early Hatchery cohort and says he continues to draw on his work with Friedlander. He says he focused on chemistry in his studies at COA because he was interested in brewing beer, and he learned chemistry by sinking his teeth into this interest. Harris also took many of Friedlander’s classes. In one yearlong class, teams were asked to go into the Mt. Desert Island community and identify business opportunities that could create positive change on the island. His team found that a great deal of organic waste was generated on the island, then trucked off as waste, while fuel was being trucked onto the island. His team settled on the concept of using an organic waste stream and fermentation to produce butanol, which is a “drop-in replacement for gasoline.” This project shows how Friedlander encourages

students to interact with the community to imagine abundant sustainability.

In the next class that Harris took with Friedlander, he developed the business plan for Gourmet Butanol, with the tagline “Turn yesterday’s eggplant parmesan into tomorrow’s fuel.” With the business plan developed, Harris applied for a NASA grant, which was funded. He was also funded for an EPA grant and won the sustainable business category of a statewide pitch competition. His business was also accepted to the Hatchery, which provided more funding and support. After graduation, he built a small butanol production facility at a community college in Colorado. At this point, he realized that the project would face many hurdles if it were to be realized on Mt. Desert Island, and it was bigger than he wanted to take on.

Even though Harris did not ultimately create the business, he says “it is hard to imagine a better learning experience.” He recalls being fully supported by Friedlander throughout the process of exploring and

continued...

developing the business, learning to “think critically about issues and creatively about solutions.” Harris eventually decided to pursue a PhD in microbiology at Berkeley, and “the application essay wrote itself” as he reported his educational experiences with Friedlander. He appreciates the ways that his entrepreneurial background helped in graduate school and wrote a successful National Science Foundation Graduate grant proposal that covered the program costs.

While still in graduate school, Harris teamed up with several other students to launch Berkeley Yeast, a company that genetically engineers yeast for the beer and wine industry. Because the yeast can convert the flavors, they can use hops that have been grown on marginal land and eliminate some of the energy-intense parts of the production process. Harris says that this business has allowed him to combine his passion for science with the entrepreneurship he learned from Friedlander. He is proud to be pushing

the beer and wine industry forward in this venture-backed business with 30 employees. He credits Friedlander with teaching him the things he needed to know to be successful in this business, and he uses those skills daily in his current role.

Another student who attributes his successes to Friedlander’s mentorship is Surya Karki, co-founder and country director United World Schools Nepal and co-founder and sales and marketing director of Delish Dairies. He says that Friedlander is his “go-to person, mentor, and advisor.” One of Friedlander’s gifts, Karki notes, is that he answers questions with questions, not answers. Karki observes that this approach gave him the ability to question anything—class content, colleagues, himself.

In working with Friedlander and identifying his passions, Karki realized he had a “massive passion for education,” and he wanted

to develop “lasting solutions to transform” education in Nepal. As a student, he established a foundation in the United States to support Nepalese education. During his junior year, he did an advanced independent study with Friedlander, focusing on creating a hybrid non-profit/ for-profit model for his project. He had to think about how to finance the solution, sustain the solution, and grow the solution to create more impact—skills and approaches he still uses today in his work.

In 2015, Karki took the Hatchery so that he could finally implement the model of building community schools in collaboration with the local government. His goal was to go to Nepal and build five schools, so he started fundraising for his low-cost, high-quality education model. Friedlander, he says, was his “constant supporter and critic.” Karki was in Nepal in 2015 when the devastating earthquake struck. Friedlander, always focused on the community around a venture, asked how



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they could galvanize support. Karki said they agreed to scale down their expectations and form an organization and fundraiser for an educational system to build back after the quake. When he graduated COA, Karki had contracts with donors for \$3 million over five years. UWS Nepal now works with over 13,000 students and has built—and continues to sustain—76 schools.

Karki appreciates that Friedlander “nurtures people with ideas, letting those ideas flourish.” Friedlander also continues to mentor Karki, who is still developing new ventures. He recently started Delish, the first Greek yogurt company in Nepal, and he says that Friedlander is still asking questions he hadn’t thought of yet.

The Human Ecology Lab in Osakikamijima (HELIO)

Friedlander has been deeply involved in

helping these approaches to education take root in Japan. After the Fukushima nuclear accident, the Japanese ministry of education determined that the accident was a failure of education—of planning safeguards, imagining what could go wrong, and figuring out how to respond to the myriad problems created by the event. Hiromi Nagao, a former university president in Japan, wanted to develop an educational system which would encourage students to look at the world in more complex ways, and she contacted COA to partner in this endeavor.

The partnership began in 2016 with a 10-day summer institute, the Human Ecology Lab and Island Odyssey (HELIO) in Osakikamijima, a small island on an inland sea. When COA started HELIO, about a third of the houses on Osakikamijima were vacant, and the majority of the population was over 60 years old. Island leaders were wondering how they could renew the economy



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in a way that would ignite community from within. Students in the four HELIO programs have worked with the people on the island; they are there to learn from the people, not to be the experts imparting their knowledge. As Friedlander points out, the goal of such an education is not training people to be academics but finding ways to make the community more abundant.

The HELIO initiative has led to the establishment of Setouchi Global Academy, COA's new affiliate school on the Seto Inland Sea. According to a recent COA article, the school's mission aligns with Friedlander's approaches: "learning how to think critically and creatively, connecting to and contributing positively to the local community, learning about Japanese cultures, history, and traditions, and growing intellectually and emotionally through interactions and experiences."

Friedlander has crafted a model that works equally well for educational contexts and business ventures. In focusing on solving community problems collaboratively and creatively, he opens the doors to innovation and excitement. This educational vision not only prepares students to "face a world that's volatile," as he states; it also nurtures ways of thinking that can truly produce abundant sustainability around the world.

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CAMPUS SECURITY

University Security Takes Center Stage: Six Things to Consider

BY BRAD KAMCHEFF

With students returning to school for the spring semester, there's no time like the present to re-assess campus security and consider if the best protocols, staff, and technology are being used to ensure the safety of students, staff, and visitors. Deploying a combination of security technologies and policies, such as streamlining public entry/exit points, employing access-control systems, and making sure strategic intercoms and parking-lot emergency communication towers are in place can help colleges and universities improve their campus-wide security. Here are six things to consider.

1. Limit Building Entry Points

While many buildings on a university campus naturally have multiple entrance and exit points, universities should consider restricting access to one or two main entry/exit points for student and public access. This means that the majority of doors to a campus building should remain locked from the outside, accessible only in case of an emergency. Back entrance doors for use by designated personnel should include an entry-control system that requires

the use of an access control credential such as an access control badge or key pin. This will also create an access control log that can provide useful data in the future.

2. Use Intercoms to Keep the Front Office Secure

The main advantage of funneling building access to a central entrance point is that it allows university staff to screen visitors before permitting them to enter. In some buildings,

such a secure science building or floor in a science building, visitors can enter the lobby but need to be vetted by the front office before gaining full access to the building. To assist with this process, colleges have installed intercom systems that enable the building staff to communicate with a visitor first before unlocking a door to allow that person to enter. Intercom systems that include an IP video camera enable staff or security personnel to visually verify the identity of an individual. It can also help to see if a visitor is carrying any weapons or if a person is agitated in any way so that staff can contact security if there is a safety concern.

3. Invest in an Access Control System

A lock and key are no longer enough to keep a college building secure or to manage building access. This is especially true in dormitory settings, where it's recommended that universities invest in an access control system that can safely manage entrances and generate access control reports. With an access control system in place, colleges and universities can

keep a dormitory safe and secure by ensuring only students who live there can gain access at any time. For academic buildings, an access control system helps easily manage when a staff member has access to a building, such as limiting access during the hours of 1 a.m. to 5 a.m., or revoking access privileges when an employee no longer works for the university. An access control system can also generate an alert and send a notification to campus security when a door does not close properly, an obvious threat to the security of the building and its occupants.

4. Leverage Visitor Management Tools

University campuses are bustling environments consisting of a variety of people, from students and professors to prospective students and their families touring campus or even vendors. Knowing who is in a building at any given time and the length of their visit can be a challenge to track using old-fashioned paper

logs. Many access control systems today come with visitor management capabilities and the ability to create temporary visitor credentials that can restrict a visitor’s access to certain areas of a building when used in conjunction with a door entry control system. The visitor credentials can also be programmed to send a notification to staff if the visitor doesn’t return to the main entrance by a certain time to log out.

5. Integrate Multiple Security Systems

Security technology should never be siloed, with systems operating independently of one another. Instead, campus security directors should look to integrate systems wherever possible to take full advantage of the information connected systems provide. One overlooked integration opportunity includes integrating video from a video intercom system with a third-party video management system. By connecting video from a video

University campuses are bustling environments consisting of a variety of people, from students and professors to prospective students and their families touring campus or even vendors. Knowing who is in a building at any given time and the length of their visit can be a challenge to track using old-fashioned paper logs.

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intercom system used at a building entry point campus with the video-management system (VMS), campus security gains seamless access to that video and recording capabilities.

6. Secure Parking Lots with Emergency Towers

While much of the focus on university security zeroes in on buildings, it's also important to remember that parking lots and parking garages also need security tools. Parking structures are often quite large, void of many people, and located away from a physical

building, making them a safety threat. In a large parking garage or expansive surface lots, the ability to find help in the event of an emergency can prove to be very difficult. A reliable, network-connected emergency tower can be easy to locate thanks to their tall design and bright colors.

When someone presses a button on an emergency tower, the person on the receiving end knows exactly where that tower is located, taking the guesswork out of trying to pinpoint a location in a sea of vehicles. In the event of an emergency, when a video intercom system paired with an emergency tower is located inside a parking garage it allows a security officer to speak with the individual who is calling about an emergency. An optional overhead camera attachment can also provide a bird's-eye view of the person in distress.

University security has made significant advancements over the past few decades thanks to continuous investments in technology. Ensuring the safety of individuals on a college campus remains an ongoing concern that necessitates regular reviews of the technologies deployed and the maintenance of best practices in building safety and access policies.

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Key Control Strategies for a Secure, Cost-Efficient, and Sustainable Fleet

BY TRICIA BUTLER

University fleets play a pivotal role in campus operations. Whether a vehicle transports students to and from campus, carries equipment for facility maintenance, or enables faculty and staff to attend off-campus events, each one is valuable both in purpose and replacement cost.

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However, managing fleets comes with significant challenges—particularly in terms of security, rising costs, and sustainability. Here are some ways campuses can dramatically improve university fleet operations through a relatively simple strategy: implementing an effective key management plan.

Security

Failing to properly secure vehicle keys is a major risk. For example, if a fleet department stores keys on a pegboard or in a basic lockbox, anyone who accesses the area can easily remove a key, regardless of if they're authorized to do so, and access a fleet vehicle.

Unauthorized use of fleet vehicles not only interferes with routine university operations but also increases the institution's liability risk. For example, someone recklessly driving a branded university vehicle puts others at risk and endangers the university's reputation. In addition, if the vehicle is involved an accident, it can lead to higher insurance costs and pose legal risks, especially if the university's key control practices are inadequate.

Key Control Strategies

- **Secure keys properly:** Instead of a pegboard or lockbox, fleet managers should consider an electronic key management system that secures all keys in tamper-proof steel drawers or solid wall-mounted panels that lock down each key individually. Key control technology enhances security by restricting access to authorized personnel only, reducing the risks and costs associated with misplaced or stolen keys and vehicles.
- **Automatically authenticate drivers:** A key control system should require drivers to scan a fingerprint, enter a PIN, or swipe a card to gain access to keys.
- **Enable security alerts:** A system should be able to alert managers in real time via text or email if someone tries to take a key without proper authorization or fails to return a key within a specific time frame. These measures help ensure immediate action in the event of unauthorized key access, encourage employees to practice good stewardship of keys, and protect the university from liability.

Rising Costs

Tens of thousands of dollars go toward modifications, maintenance, fuel, and more over the course of a vehicle's fleet life. Fleet managers are tasked with achieving readiness rates year in and year out as costs climb and budgets shrink.

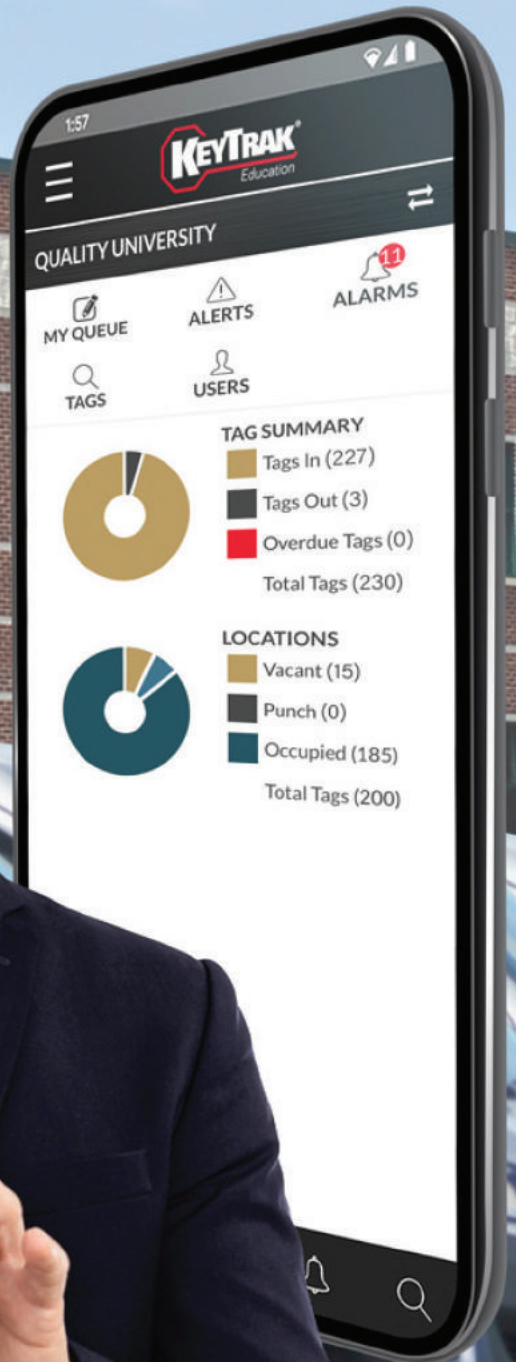
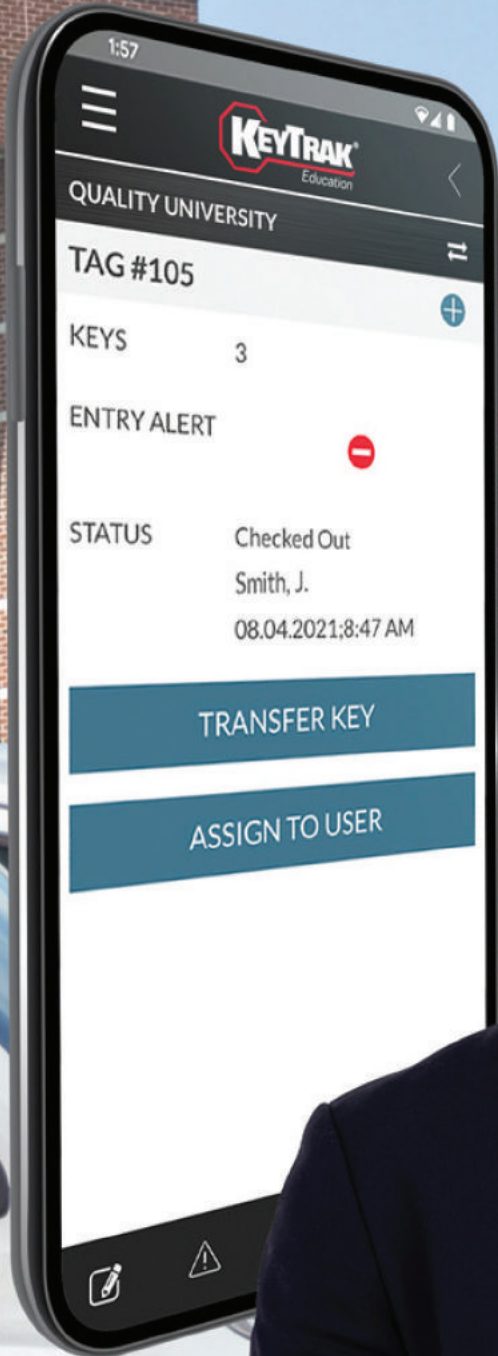
If an institution is operating on a limited budget, there's no room for inefficiency. When evaluating cost-saving measures, eliminating time-consuming manual key control processes is a good place to start. This issue alone wastes valuable resources,

continued...

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from lost productivity to key replacement costs. A process that requires someone to manually sign keys in or out delays staff or faculty getting the vehicles they need. That's not to mention the interruptions throughout the fleet manager's day when they need to

check a key in or out. Errors or omissions on the key log lead to further complications.

Another significant source of cost inefficiencies is maintenance, which is only compounded by supply chain challenges.

To extend vehicle lifespans and avoid costly repairs, timely maintenance is crucial. Inadequate maintenance drives up costs as over-worked vehicles face emergency roadside repairs or pricey part replacements.

Monitoring a fleet's high-use vehicles is a priority since they often require the most maintenance. However, it's important not to forget vehicles that tend to stay on the lot. When vehicles are stagnant, tires can rot, batteries can degrade, fuel can go bad, and fluid leaks can develop.

Key Control Strategies

- **Digitize key logs:** To save time and ensure an accurate key log, electronic key control systems can automatically record who took a key, when, and why. With accurate key logs, fleet managers are better equipped to right-size the fleet, maintain timely maintenance schedules, and achieve a high readiness rate.
- **Enter vehicle mileage upon key return:** Key control systems can prompt users to enter mileage when they return a key, helping fleet managers streamline maintenance schedules. Managers can then review daily reports to find discrepancies and track maintenance.
- **Review key activity logs to identify under- or overutilization:** The data key control systems generate, such as usage patterns and mileage records, helps inform decision making. By having access to detailed reports, fleet managers can make strategic choices regarding budget allocation, maintenance schedules, and vehicle assignments.
- **Reserve keys when vehicles are due for maintenance:** When a vehicle is approaching a mileage milestone, fleet managers can reserve that key to temporarily remove the vehicle from rotation.

Sustainability

Universities rely heavily on their fleets for various functions. However, excessive use increases fuel consumption, which not only strains the university's budget but also contributes to higher carbon emissions, amplifying the institution's environmental impact.

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Unnecessary use also accelerates wear and tear on vehicles, reducing their overall lifespans. Addressing these sustainability challenges is difficult if drivers put “mystery miles” on vehicles, using them without permission or for unauthorized reasons.

Key Control Strategies

- Track key usage patterns to optimize utilization: Key control systems’ ability to automatically record who took a key, when, and why provides a comprehensive overview of fleet


utilization. With this data, fleet managers can allocate resources efficiently to achieve sustainability objectives and foster responsible fleet management practices.

- Review mileage history to identify wasteful use: By enabling precise tracking of fleet keys, electronic key control helps reduce wasteful fleet use. Fleet managers can detect mystery miles by comparing mileage accrued on a vehicle against the checkout reason provided.

- Assign vehicles based on job roles to conserve resources: To prevent unnecessary wear and tear on vehicles and reduce fuel emissions, fleet managers can restrict access to certain vehicles based on job roles. For example, a recruiter would be able to check out a fuel-efficient sedan but not a van.

Using technology to improve key management empowers fleet managers to enhance campus safety, optimize operations for better cost control, and promote responsible resource management. With effective key control, university fleets can continue to drive campus operations forward for years to come.

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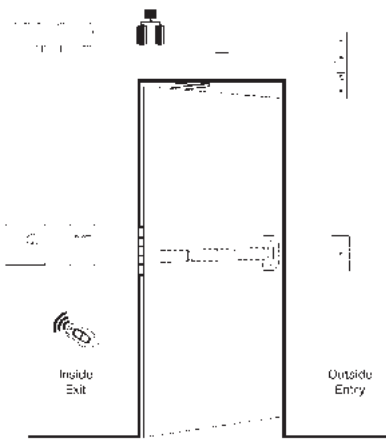



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ABOUT THE AUTHOR: Tricia Butler is a Senior Field Manager with KeyTrak, Inc. For over two decades, she has helped some of the largest higher education campuses across the western U.S. minimize key management risks and operate more efficiently.

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A photograph of a modern concert hall. The stage is lit with warm orange light, and a person is standing at a podium on the left. The walls are made of large, curved wooden panels. The audience seating is visible in the foreground, consisting of rows of grey seats. The overall atmosphere is professional and high-tech.

INNOVATIVE TECHNOLOGIES IN PRIVATE UNIVERSITIES

SPOTLIGHT ON VIRTUAL ACOUSTIC TECHNOLOGY FOR MUSIC

Music education in higher ed is witnessing remarkable advancements through the integration of virtual acoustic technology. This innovation has revolutionized both performance spaces and practice areas by offering acoustic experiences that enhance performing, teaching, and learning. This technology also saves money by optimizing the utility of music spaces. Two private institutions reaping these benefits are Wartburg College in Waverly, Iowa, and the Cleveland Institute of Music in Cleveland, Ohio. Here are their stories.

continued...



Fostering Performance Flexibility at Wartburg College

At Wartburg College, the integration of Wenger’s Transcend™ Active Acoustic System has been a game-changer. Wartburg faced the challenge of revamping its Neumann Auditorium, a dated venue initially designed for spoken-word events and religious services. Because the acoustics were extremely dry, it was a difficult performance space for Wartburg’s choral groups, often singing classical works intended for cavernous, cathedral-like spaces. Acoustically dry environments also do not provide adequate aural feedback to the singers or director.

“With singing and with playing an instrument, so much of it is psychological,” says Dr. Lee Nelson, director of the Wartburg Choir. “If the room’s not helping you sing or project your sound, you start working harder and using poor technique.”

Many colleges, universities and even high schools face this problem: no performance venue is ideal for all types of ensembles. Explains Nelson, “If it’s good for the band, it’s bad for the choir. If it’s good for the choir, it’s bad for the band.” He adds, “Neumann Auditorium was good for our instrumental ensembles, not great for the orchestra and downright terrible for the choir.”

While the acoustics of a reverberant room can be tamed with traditional sound absorption solutions like fabric banners, it had been impossible to create a more reverberant space in a dry acoustical environment—until Transcend.

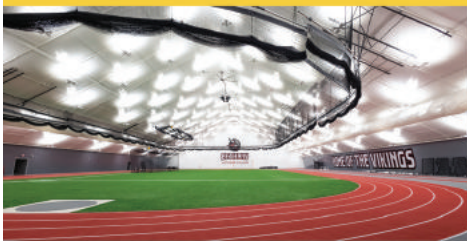
Instead of an expensive renovation or new construction project, Neumann Auditorium was transformed from a dry acoustical space into an acoustically versatile venue suitable for choir, band, orchestra or other ensembles.

To develop the groundbreaking Transcend System, Wenger partnered with the legendary audio company HARMAN Professional. A unique system of microphones, digital signal processing technology and precisely located speakers customize the acoustic environment,

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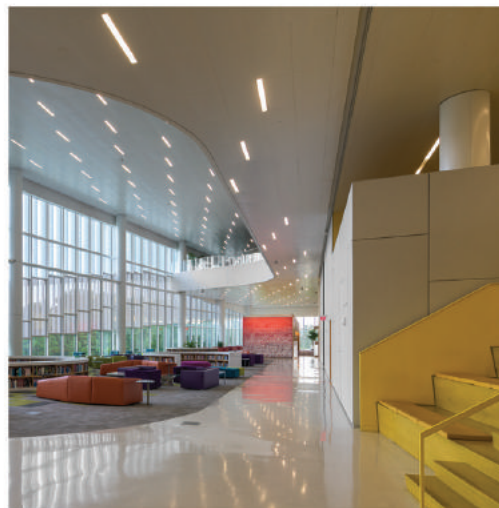
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enabling optimization for both choral and instrumental performances. The system also ensures a more consistent sound throughout the auditorium. Every Neumann audience member—even those under the balcony—enjoys great sound quality.

Although the technology behind Transcend is sophisticated, users can easily switch between acoustic presets through a simple touch-screen interface. At the touch of a button, Neumann Auditorium can have an acoustical response that sounds as lively as a Gothic cathedral.

“You can simulate any acoustic you want. It’s virtually limitless,” Nelson explains. “You could create a choral/orchestral performance setting, a choral setting for cathedral performances and a setting for a piano concerto—all within the same concert if you wish. And, all settings can be stored and recalled at any time.”

This transformation has improved performance quality in Neumann Auditorium and turned this venue into a recruitment asset for Wartburg College, attracting both events and talented student musicians.

continued...

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CREATIVITY OF ENGINEERING

Revolutionizing Music Practice at Cleveland Institute of Music

For the Cleveland Institute of Music (CIM), the planning process for a new residence hall included a desire for state-of-the-art practice

spaces to benefit student musicians. Given CIM's role as a leading American conservatory, practice space was prioritized over the lounges or exercise rooms typical in student housing.

The solution was found in Wenger's

SoundLok® Practice Rooms equipped with Virtual Acoustic Environment (VAE®) technology. These rooms offer sound isolation, realistic acoustical simulations of nine different performance environments, and digital record/playback capabilities, catering to both individual and small ensemble practices.

"We recommended Wenger to our real estate developer as a leader in this industry," explains Eric Bower, CIM's senior vice president. "From our perspective, this was an easy call." CIM had been ordering Wenger equipment for years, including conductor's equipment, music stands, orchestra chairs and cello chairs.

Early in the planning process, both traditional stick-built rooms and Wenger's modular practice rooms were evaluated. Developer NewBrook Partners also hired an acoustician to review options. "We considered stick-built practice rooms but couldn't figure out how to achieve the quality of Wenger rooms by building them," says Guy Totino, principal with NewBrook. "Wenger technology for sound isolation and active acoustics is state of the art and unequivocally the best for sound."

Selecting the Wenger practice rooms was a confidence-building moment for entire project team, according to Denver Brooker, architect/principal with VOCON. "Wenger had completed many projects successfully," he notes. "With Wenger's reputation, we knew that the practice rooms would perform as expected."

During the installation process for the 22 SoundLok rooms, Bower was in close contact with the Wenger team; the timeline was very tight. He said Wenger was "extremely efficient and very responsive" in addressing any issues. "I had good working relationships with the installers, along with the Wenger office personnel handling the contracts and logistical details." Bower adds, "All and all, it was a good experience."

He noted the immediate positive response from students. "The students realized the benefits right away. You can play Bach in a cathedral setting—it's great!" This technology

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not only enhanced their practice experience but also contributed significantly to their overall educational journey, including helping them better prepare for real-world performance scenarios.

The VAE technology enabled students to practice in various acoustical settings at the touch of a button, greatly enhancing their learning experience. The advanced ventilation system and keycard access further added to the functionality and security of these spaces.

“We’re extremely happy with these Wenger practice rooms—they are so very important to our students,” Bower says. “They were the right solution for our student housing facility.”

The integration of Wenger’s virtual acoustic technologies at Wartburg College and CIM showcases the significant advancements available for music performance and education. Wartburg’s Neumann Auditorium, transformed by the Transcend™ System, now offers a versatile acoustic environment suitable for various ensembles. CIM’s residence hall equipped with SoundLok® Practice Rooms and VAE® technology provides acoustic simulations for effective, realistic practice. These innovations enhance venue flexibility and improve educational outcomes, reinforcing the key role such technology can play in shaping music education today and in the future.

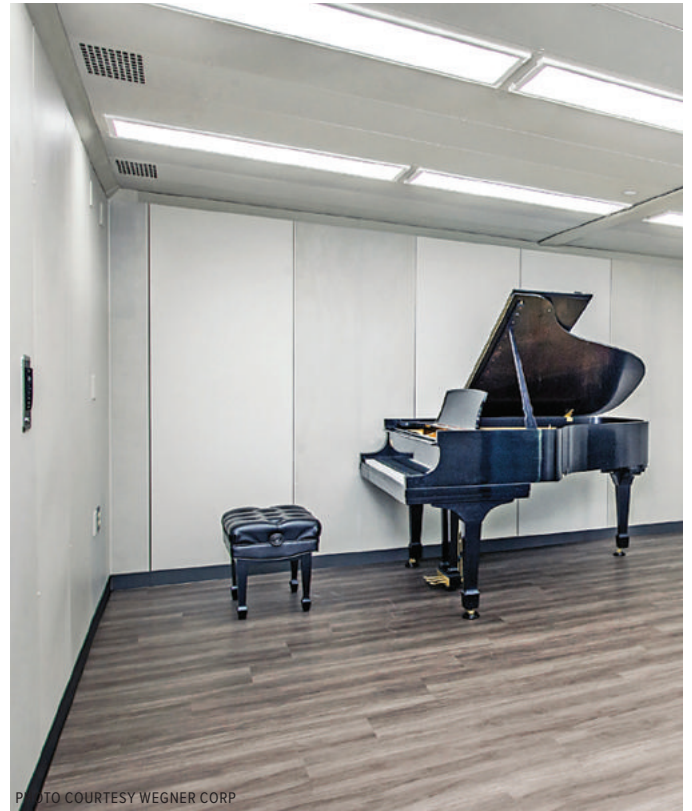


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RUNNING A *Sustainable* KITCHEN:

ENERGY STAR® Certified Commercial Cooking Equipment

By Meghan Peiffer

No matter the size of the foodservice operation on your campus, greater efficiency leads to greater profits. This is especially true in the kitchen, where utilizing energy-efficient equipment is the most effective way to manage monthly bills. But running a sustainable kitchen is not just about reducing energy, water and waste expenses. The impact is much broader – these choices have the power to reduce greenhouse gas emissions and protect our climate.

Fortunately, cooking with energy efficient equipment doesn't mean sacrificing on features, quality or performance. In fact, ENERGY STAR® certified cooking equipment helps operators save money and protect the environment.

In order to earn the ENERGY STAR label, products must meet the energy efficiency requirements set forth by the Environmental Protection Agency (EPA).

continued...

There are currently eight commercial foodservice (CFS) product categories:

Commercial Refrigerators and Freezers: to qualify, refrigerators and freezers must be 40% more energy efficient than standard models. Certified products are designed with components that result in more uniform cabinet temperatures and reduced heat output from more efficient compressor systems. There are a variety of eligible products in this category including reach-in, roll-in, pass-through, undercounter, milk coolers and more. A certified commercial freezer may save an operator \$200-\$430/year in estimated energy costs while a certified commercial refrigerator may save an operator \$100/year.

Commercial Dishwashers: to qualify, dishwashers must be 40% more energy efficient and 40% more water efficient than standard models. Many certified dishwashers offer features such as dish load sensors, low power mode during long periods of idle and improved nozzle and rinse arm design. Both stationary and conveyor machines are eligible. Certified dishwashers have a huge impact on an operator's bottom line. Flight-type dishmachines may save an operator \$5,500/year in estimated energy costs. Other eligible dishmachines may save an operator \$1,300/year.

Commercial Ice Makers: to qualify, ice makers must be 12% more energy efficient and 23% more water efficient than standard models. Both batch-type machines and continuous-type machines are eligible

and new models offer technical improvements over older models such as improved evaporator insulation and high efficiency compressors, fan motors and water pumps. Batch-type machines may save an operator \$125/year in estimated energy costs while continuous-type machines may save \$185.

Commercial Fryers: to qualify, fryers must be 30% more energy efficient than standard models. Gas and electric open vat fryers – both countertop and floor type – are eligible, as long as the frypot is greater than 12 inches and less than 24 inches. Advanced technologies such as new heat exchanger designs and more accurate thermostats lead to higher production, quicker recovery and an overall extended product lifetime. Depending upon size of the tank, gas fryers have the potential to save operators \$460-\$520/year in estimated energy costs while electric fryers may save operators \$120-\$185.

Commercial Griddles: to qualify, griddles must be 10% more energy efficient than standard models. Operators who switch to gas or electric certified models will enjoy improved cooking performance, higher productivity and improved temperature uniformity across the plate. Within the industry, highly conductive plate materials as well as improved thermostatic controls are readily available. A gas griddle may save an operator \$100/year in estimated energy costs while an electric griddle may save operators \$130/year.

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The annual savings on energy costs will be enjoyed for each year of the product's lifetime; therefore, it is critical to consider the total cost of ownership over the lifetime of the equipment.

Steam Cookers: to qualify, steamers must be 60% more energy efficient than standard models. Gas or electric countertop, wall-mounted and floor-models with at least 3-pans are eligible. In recent years, manufacturers have introduced connectionless designs which result in 90% reduction in water consumption. Certified gas or electric steam cookers may save operators \$1,200/year.

Ovens: to qualify, convection ovens must be 20% more energy efficient than standard models and combination ovens must be 30% more energy efficient than standard models. At this time, only food-grade commercial convection and combination ovens are eligible – including half-size, full-size and both gas and electric. Certified ovens can lead to higher production capacity and a faster and more uniform cooking process through infrared burners and improved insulation. Gas ovens might save an operator \$165-\$250/year in estimated energy costs while electric models may save \$70-\$740.

There are currently eight commercial foodservice (CFS) product categories:

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Hot Food Holding Cabinets: to qualify, heated holding cabinets must be 70% more energy efficient than standard models. Cook-and-hold or proofing units are typically ineligible in this category. Products should be fully enclosed compartments with one or more doors. Through the addition of insulation and more precise controls, certified models lead to better temperature uniformity and an overall cooler kitchen. Operators may save up to \$310/year on estimated energy costs.

The annual savings on energy costs will be enjoyed for each year of the product's lifetime; therefore, it is critical to consider the total cost of ownership over the lifetime of the equipment. While energy efficient equipment may have a larger price tag than other models at the time of purchase, it will be offset by each year of use of the more efficient equipment. Additionally, some utility providers offer a rebate for purchasing more efficient equipment. Be sure to check with your local provider.

It is estimated that outfitting an entire kitchen with a suite of ENERGY STAR certified equipment could save an operator about 360 MBtu/year – or the equivalent of \$5,000 per year. When this is considered in context of the number of kitchens on a campus, it is truly staggering. And what's more, full ENERGY STAR certified equipment would prevent about 42,000 pounds of greenhouse gas emissions annually.

Learn more about ENERGY STAR by visiting www.energystar.gov.



ABOUT THE AUTHOR: Meghan Peiffer is a Marketing Manager with Vulcan, a division of ITW Food Equipment Group. Vulcan is a leading manufacturer of cooking equipment in the U.S. with a broad line of products including ranges, convection and combi ovens, fryers, griddles, charbroilers, steamers, braising pans, kettles and heated holding cabinets. She can be reached at meghan.peiffer@itwce.com.

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Leaders in all things recreation, fitness, and ability, Aqua Creek Products is a family-owned business based in Missoula, Montana. For the last two decades, Aqua Creek has strived to improve the lives of people of all abilities. It has done so by providing access to life-changing recreational and fitness activities through the use of unique, high-quality, and affordable equipment. Aqua Creek offers pool lifts with

ATHLETIC FACILITIES SPOTLIGHT



VANTAGE

www.vantagewatercare.com

The Vantage Water Care Program is a comprehensive water maintenance plan designed for commercial pool operators, utilizing chlorination or bromination as its primary sanitation method. The program combines the effective and reliable sanitation properties of chlorine or bromine sanitizers with remarkable clarification properties of a new compound called Poly-A Tablets. These components are added to an overall water management framework that encourages sparkling clear water. The Vantage Water Care Program gives commercial pools the highest quality water in the most efficient, operator-friendly, and cost-effective program available. This straightforward operation consists of many components. The size and installation of these components are carefully determined according to each pool's specific needs and demands.

ATHLETIC FACILITIES SPOTLIGHT



ROYAL BASKET TRUCKS

www.royal-basket.com

Continual product developments and enhancements have made Royal a recognized brand of material handling solutions for multiple markets. We manufacture basket trucks and specialty laundry carts in twelve vinyl colors, and in canvas or molded poly. Every product is made to order, allowing us to customize our wire frame carts by making size modifications specific to a customer's environment when needed. In addition to slight modifications, we also design and manufacture custom concept carts. Our manufacturing environment is unique, as we have under one roof a full woods department, a welding department, and an industrial sewing department. This arrangement allows us to produce orders on a short timeline to better meet each client's needs.

more color options than any other pool lift manufacturer in the business, as well as the only solar-powered pool lifts on the market today. Other products include therapeutic and exercise equipment such as pool bikes, aquatic wheelchairs and walkers, swim platforms, and even a land-based fitness machine designed to provide wheelchair users the ability to work out independently. For exceptional customer service and the best warranties in the industry, call Aqua Creek today!

AQUATIC ACCESS

www.aquaticaccess.com

Aquatic Access offers a full line of water-powered lifts for in-ground pools and spas, above-ground pools and spas, portable spas, swim spas, and for most whirlpool, therapy, or rehabilitation tubs and pools, including those consisting of six-foot walls. We also build lifts for boats, docks, and cruise ships to provide access to pools and spas.

BISON

www.IPIbyBison.com

IPI by Bison provides ceiling- and wall-mounted basketball backstops, gym divider curtains, batting and practice cages, gym floor covers, wall and stage padding, and a wide selection

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ATHLETIC FACILITIES SPOTLIGHT

SPORTSART AMERICA
www.gosportsart.com



SportsArt has been an industry leader in innovative design and manufacturing excellence since 1977. The company is known for advancing industry standards and positioning itself as one of the most creative manufacturers of premium quality fitness, medical, performance, and residential equipment. With its products sold in over eighty countries, SportsArt is one of the largest single-brand manufacturers in the world. SportsArt also contains over 500,000 square feet of state-of-the-art manufacturing space, and it designs, manufactures, and tests all equipment to rigorous TÜV quality standards. With hundreds of patents worldwide for innovative technologies, including the award winning ICARE™ system and the newly relaunched ECO-POWR™ Series that complies with CE and UL certificates, SportsArt is the leading green fitness partner, developing products that are instrumental to rebuilding and sustaining lives.

of gym and field sports equipment for sports-related new construction and renovation projects. For over forty years, IPI has provided quality gym equipment to schools, recreation centers, churches, health clubs, pay-to-play facilities, YMCAs, and virtually anywhere that indoor team sports are played. In 2012, IPI was acquired by Bison, an industry leader in post-construction, indoor gymnasium, and outdoor field sports equipment. Operating as an independent division of Bison, IPI customers can take advantage of Bison's advanced manufacturing capabilities, extremely diverse product line, and creative product engineering. Located off I-80 in Lincoln, Nebraska, Bison has a longstanding reputation for quality, customer-centric service, on-time delivery, and it is dedicated to creating U.S. jobs by maintaining over 90% of its manufacturing in the United States.

ATHLETIC FACILITIES SPOTLIGHT

TINYMOBILEROBOTS
www.tinymobilerobots.us



We empower private colleges and universities to achieve pro-level fields with less time, paint, and labor. We designed our robots to be the lightest, fastest, and most affordable field painting robot on the market, painting a regulation soccer field in 22 minutes and a football field, hash marks and all, in under 2 hours, in addition to a women's lacrosse field in just 29 minutes. Instead of tying up a 3-4-person crew to stake and line your fields, one person can do it with our Tablet's simple drag-and-drop Google Maps interface. With hundreds of pre-loaded field templates, you can be sure every field is accurate and proportional. While the TinyMobileRobot lays down perfect lines, arches, hash marks, logos, and mid-field logos with unparalleled accuracy, your staff can focus on other tasks to prepare your fields and make them a point of pride for everyone.

PADDOCK INDUSTRIES
www.paddockindustries.com

Paddock started the modern pool industry by building pools for well-known icons such as Ronald Regan and Shirley Temple, among many others. Over the years, we have transitioned from building pools to manufacturing commercial pool equipment. Having reached our 100th anniversary, our experience, innovation, quality, and most importantly, passion in manufacturing the highest quality, most technologically advanced commercial pool equipment in the industry is greater than ever. We are never satisfied and continue to innovate and improve on all products we manufacture. Our dedication to innovative engineering, coupled with our research and development team, has provided professional pool designers, builders, and, ultimately, pool owners with what Paddock calls the 'Ultimate Pool.' We employ the best people in the industry; talented employees who love what they do. Paddock sets the standard for Commercial Pool Equipment made in the United States of America.

AUDIO/ACOUSTICS/AUDITORIUMS SPOTLIGHT

WENGER
www.wengercorp.com



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LIST INDUSTRIES INC.
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PVI INDUSTRIES www.pvi.com



PVI is a leading manufacturer of industry-best commercial and industrial water heaters, each fabricated from corrosion-resistant AquaPLEX® duplex stainless steel. PVI water heaters can be configured for any common energy source, including natural or LP gas, oil, boiler water, solar, steam, electricity, and waste heat. Water heaters range from instantaneous, on-demand water heating to storage water heaters. PVI has installed thousands of systems across the nation throughout a broad range of applications and industries, including universities, restaurants, hotels, hospitals, apartments, correctional facilities, military barracks, and more. PVI proudly backs its water heaters with the industry's strongest warranties and service policy packages.

system allows us the flexibility to custom design lockers to meet the specific requirements of each project. We welcome the opportunity to work directly with every client to custom design not only a productive and attractive locker room environment, but one that is cost-effective. Our results-driven team of designers, engineers, and sales professionals are available to assist customers every step of the way, from initial budget planning to final project closeout.

AUDIO/ACOUSTICS/AUDITORIUMS

AMPLIVOX www.ampli.com

AmpliVox Sound Systems is a leading U.S. manufacturer of portable sound systems, lecterns, and multimedia workstations for colleges, universities, and other educational, government, and commercial markets. Our top-quality professional presentation equipment features the latest wireless and Bluetooth technology. It sets up easily and delivers ideal performance, reliability, and durability. We offer a wide variety of products for educational institutions, including workstations, collaboration tables, multimedia lecterns, and portable PAs for both indoor and outdoor use. Our constant technological innovation includes new control systems for multimedia furniture, integrating a variety of

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CONSTRUCTION/HVAC

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Headquartered in Menomonee Falls, Wisconsin, USA, Bradley serves educational, commercial, institutional, and industrial building markets worldwide.

CEILUME

www.ceilume.com/pro

Ceilume is the leading manufacturer of thermoformed ceiling tiles and panels, sized to fit standard 2x2 and 2x4 suspended ceiling grids which are widely used in commercial, institutional, retail, hospitality, and health care environments. These three-dimensional tiles and panels are available in forty different patterns to complement virtually any architectural style, with thirteen color and finish options and three diffusions of Transluminous® materials for making luminous ceilings. They can provide acoustic control up to NRC= 0.85, are Greenguard Gold certified for indoor air quality, and are made in the USA. The company's roots go back to the pioneers of modular ceilings, when "Mid-Century was Modern. With an eye on the future, Ceilume's research and development continues to improve interior finish systems to meet changing environmental, performance, and aesthetic needs.

CLEARSPAN

www.clearspan.com

Over our proud history, ClearSpan has worked on thousands of projects across dozens of industries, providing custom and turnkey building solutions that are both unique and functional. We are renowned for our versatile structures, which have earned the nickname "Buildings of 1,000 Uses." When purchasing a structure from ClearSpan, our customers can rest assured they will receive the exceptional service that we are known for. Our building specialists have years of experience working within the industry, and they can offer invaluable advice and suggestions throughout the entire building process, ensuring that customers get an ideal structure for their operation.

DORLEN PRODUCTS INC.

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A water leak detection company, Dorlen Products has manufactured surface water leak detection equipment since 1975. Our water leak specialists are dedicated to selling the highest quality, lowest maintenance leak sensors available today. Our leak sensing systems are rugged, yet sensitive to detect even a thin film of water without false activations. Water Alert leak detection equipment is designed to maximize protection by offering continuous monitoring 24/7. All prior to an occurrence of damage and downtime, our water line leak detection equipment identifies small leaks such as condensate water overflow, chiller water leaks, plumbing line cracks, heating/cooling piping leaks, outside seepage, and more. The water detector alarm features vary by model.

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HOPE'S®

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selection of fixtures utilizing the latest LED technology, giving customers the choice in performance, economy, sizes, and styles. Our rapidly expanding line of selectable wattage/CCT products allow users to adjust illumination levels according to their preference in the field. Available control options include 0-10V, bi-level, or TRIAC dimming. We also offer a variety of sensors with motion, occupancy, and daylight harvesting capabilities, all of which can communicate via Wi-Fi or Bluetooth. LED retrofit kits for all types of existing light sources can be designed for specific applications. Our light fixtures adorn the interior halls and exterior facades of prominent colleges and universities like UCLA, Michigan State, University of Illinois, and many other locations.

HVAC JACK www.hvacjack.com

HVAC Jack is an online supplier of commercial HVAC equipment including the FiDO2 fire damper opener, a tool that makes the process of testing fire dampers as required by NFPA much safer and easier. Our expanding product line includes exhaust fans, gas detection equipment, grilles and diffusers, replacement fan parts, in addition to HVAC and ductwork accessories. Our priority is to provide quality products at affordable prices. Most of the items we carry are stocked at our Illinois warehouse for quick turnaround.

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CONSTRUCTION/HVAC SPOTLIGHT



OVERLY DOOR COMPANY
www.door.overly.com

Overly Door company is a custom specialty door and window manufacturer. Industry-leading architects use our products to achieve the precise specification each facility requires. We provide many “out-of-the-box” solutions for every customer's needs. We also specialize in custom barrier systems. For all standard or custom needs, be sure to specify Overly Door Company.

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www.kriegerproducts.com

Since 1936, Krieger Specialty Products has been a leading manufacturer of specialized door and window products for acoustical, blast resistant, bullet resistant, radio frequency shielding, thermal shielding, tornado, and hurricane applications. Built to each customer's precise specifications, Krieger doors and windows have been the choice for premier schools and universities all over the world.

ZURN

www.zurn-elkay.com

Headquartered in Milwaukee, Wisconsin, Zurn Elkay Water Solutions is a growth-oriented, pure-play water business that designs, procures, manufactures, and markets the broadest sustainable product portfolio of solutions to improve health, human safety, and the environment. The Zurn Elkay product portfolio includes professional-grade water control and safety, water distribution and drainage, drinking water, finish plumbing, hygienic, environmental and site works products for public and private spaces.

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WOOSTER PRODUCTS

www.woosterproducts.com

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For more information on List Industries Inc.® visit listindustries.com or call 800-776-1342.



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Acoustical Rating

STC 45 - 48

STC 49 - 55



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UL Level 3

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FURNITURE

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Each piece of custom furniture from Huston & Company is designed to enhance the aesthetics of its surroundings. Located in fine academic institutions and libraries, as well as professional spaces from government buildings to small businesses, Huston furniture adds to the atmosphere of graceful permanence inherent in places of intellectual engagement, learning, and professionalism. Huston & Company furniture is custom-designed and finished to withstand hard, regular use in public settings such as libraries, academic spaces, and meeting/conference rooms. Each piece of Huston furniture will last for generations and retain its beauty, warmth, and functionality, in turn providing schools, libraries, or offices with longevity that equates to real value.

INTERKAL, LLC

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Interkal is an industry leading manufacturer of telescopic bleachers and fixed seating products, based in Kalamazoo, MI. Interkal offers a wide selection of spectator seating options ranging from the Excel Seat Module and VISION Platform Chair to the AURA Slat Stadium Chair and AURA Solid Stadium Chair. In 2023, Interkal introduced the luxurious and ergonomic Odyssey Auditorium Chair, an ideal audience seating choice for any theater or performing arts center. With experience in K-12 gymnasiums, collegiate and university field houses and stadiums, in addition to professional sporting facilities and arenas, Interkal is committed to providing innovative design solutions catered to each individual facility's needs.

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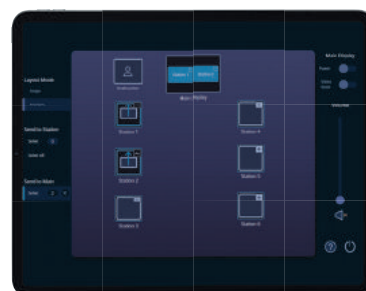
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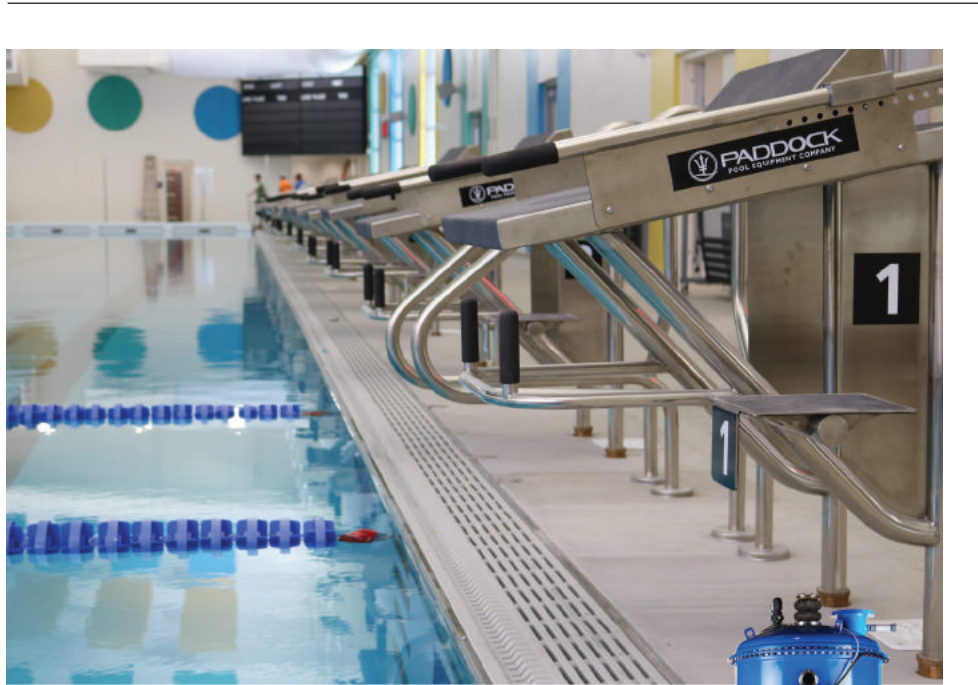
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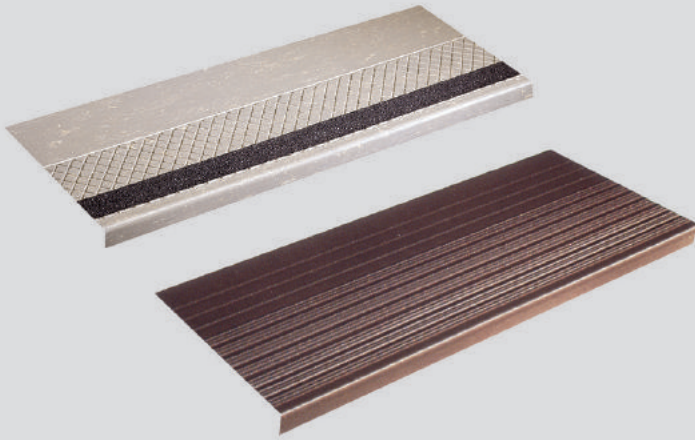
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In recent years, the escalating threat of gun violence has become an alarming concern for educational institutions across the United States. With mass shootings on the rise, it is imperative for private higher educational institutions to proactively address the safety of their staff and students. Recognizing the urgency of the situation, a comprehensive and immediate solution is essential. One such solution gaining traction is the implementation of Emergency Response Shields (ERS), a proactive measure designed to protect against active shooter incidents on campus.

Ensuring Immediate Protection:

Just as fire safety protocols have been ingrained into the infrastructure of public buildings, a similar approach is crucial for addressing active shooter scenarios in private educational institutions. The ERS serves as the "Fire Extinguisher for Gunfire," offering immediate protection against assault rifles, shotguns, handguns, as well as blades and blunt force weapons. By empowering faculty and staff with this advanced tool, private higher educational institutions can bridge the gap between an incident occurring and the arrival of first responders.

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Derived from Military-Grade Technology:

The technology behind Emergency Response Shields is derived from armor technologies initially developed for Department of Defense Programs and extensively fielded on United States military vehicles. These advancements have been integrated into federal law enforcement body armor, assuring a high level of protection for educational institutions against potential threats.

Creating a Secure Learning Environment:

Beyond the immediate safety benefits, the implementation of ERS has shown to contribute significantly to mental health and well-being within educational communities. As students and staff feel empowered and protected, a renewed sense of security and confidence permeates the campus environment. The visible presence of protective measures can also act as a deterrent, dissuading potential attackers from targeting well-prepared and armored educational institutions.

In the face of increasing threats, private higher educational institutions must prioritize the safety and security of their campuses. Emergency Response Shields offer a proactive and effective solution, aligning with established safety protocols and utilizing cutting-edge military-grade technology. By investing in these defensive measures, institutions can foster a secure learning environment, providing both students and staff with the confidence that their safety is a top priority.

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TECHNOLOGY ON CAMPUS SPOTLIGHT

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ASTM, ANSI, and NFSI committees that develop and maintain walkway testing standards.

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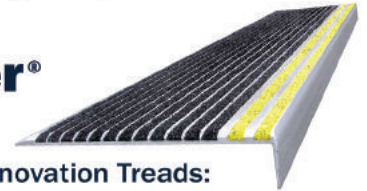
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Product Spotlight

Hope's Windows, Inc. Highlights Landmark175™ Series Steel Windows and Doors

Hope's Windows, Inc., the nation's leading manufacturer of custom-designed, solid steel and bronze window and door systems, highlights its Landmark175™ Series Steel Windows and Doors. Fit for projects that call for a classic steel aesthetic, the Landmark175™ Series offers much profile overlap with Hope's popular Jamestown175™ Series but with a narrower sightline. The Landmark175™ Series accommodates a variety of glass thicknesses and makeups—offering customers the same unmatched flexibility and customization Hope's is known for.

Other product features include fully welded construction for all Hope's frames. Whether a customer's project calls for hot-rolled steel or bronze, Hope's utilizes fusion welding to connect corner and intersection joints, resulting in a single, continuous frame. The Landmark175™ Series offers classic hot-rolled steel design with a range of customization options such as square or sloped glazing beads, making this line ideal for interior or exterior installation. Plus, Thermal Evolution Technology brings the Landmark175™ Series into accordance with NFRC guidance for U-value performance, solar heat gain coefficient, air infiltration, and condensation resistance.

The Landmark175™ Series also features Hope's Power of 5 finishing system—the industry's most advanced finishing system worldwide. This comprehensive coating system was developed to provide consistency and durability beyond the finishing process. Industry-wide, finishing processes vary dramatically. Hope's Power of 5 finishing system provides peace of mind in protecting customers' investment, both aesthetically and functionally, for years to come.

Hope's leads the industry in design and manufacturing experience. Hope's has been providing happy customers with high-end custom-manufactured doors and windows for more than a hundred years. Hope's craftsmen work with customer specifications to create beautiful, custom shapes and sizes for any application.

For more information, product illustrations, and product specifications, please visit <https://hopeswindows.com/products/style/windows-and-doors/landmark175-series/>.



Extron PlenumVault Direct View System Now Shipping - The Ideal AV System for Classrooms with Flat Panel Displays

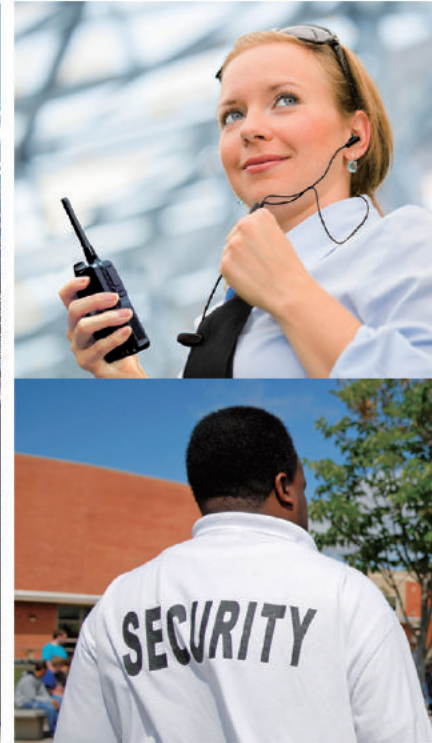
Extron is pleased to announce that its new PlenumVault Direct View System is now shipping. This system is expressly designed to make the most of flat panel displays in educational spaces. Whether your classroom is used for in-person, hybrid, or remote learning, PlenumVault Direct View provides students and instructors with an intuitive user interface and unsurpassed audio and video quality that create superior educational experiences. Advanced audio capabilities include an integrated amplifier, audio input mixing, and line level outputs. The built-in control processor automates AV system functions so instructors can start teaching with AV tools the minute they enter the room.

"With flat panel displays becoming so popular in classroom AV systems, Extron engineered an AV distribution and control system especially suited for these displays," says Casey Hall, Chief Marketing Officer at Extron. "The PlenumVault Direct View System delivers superior video up to 4K, along with clear and powerful sound that you simply can't obtain through the speakers built into the flat panel display."

The PlenumVault Direct View System controls a wide array of AV devices via a range of control ports. Customize the system with a broad choice of options for the user interface, AV signal extension, speakers, mounting hardware, and more. The system supports Extron ShareLink Pro wireless presentation systems, allowing BYOD devices to share content. It also supports Extron's VoiceLift Pro microphone for instructor voice reinforcement. Flexible mounting choices are available to fit the room design, including the PVM 220 PlenumVault Mounting Kit that securely mounts and conceals system components in the plenum space above a suspended ceiling, or ZipClip 400 for mounting behind the flat panel display.

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