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The kitchen cabinets in this live/work residence (top) are a mix of store-bought, custom, and antique. De Leon & Primmer Architecture Workshop turned abandoned city lots into light-filled office space for its firm (above). Photos: Pulitti Photographic and De Leon & Primmer Architecture Workshop. Cover photo: Mat Szwajkos/Aurora Select

The Shotgun House Project is a near-term housing solution for New Orleans.

De Leon & Primmer Architecture Workshop focuses on creative reconstruction of New York City's notoriously constrained quarters. The firm's urban work manipulates light to shape space and define volume.

Bringing private life and professional pursuits together into one vessel opens up rich new territory for design, while eliminating the deleterious effects of the daily commute. Three projects explore a variety of artful live/work solutions.

An Airstream as both home and office streamlines one architect's routine.

Just how low can the latest single- and dual-flush toilets go?

A Houston couple designs its own live/work space and develops surrounding lots for like-minded custom clients.
shotgun chic

Hurricane Katrina and the ensuing flooding left New Orleans with a significant housing crisis that has not yet been resolved. Rochester, Ind.—based design/build firm Miletus Group, which specializes in prefab and modular systems, has developed a prototype that may help: the Shotgun House Project.

"Katrina’s lasting effects have created a massive housing deficit in New Orleans," says Miletus president James B. Guthrie, AIA. "This housing dilemma is exacerbated by labor shortages and the high price of available building materials. Our premise was to build high-quality and architecturally sensitive homes off site, away from the stresses of New Orleans’ building environment."

The model in question is an architecturally sensitive modular shotgun that may come fully intact and ready-for-occupancy or partially unfinished for handy do-it-yourselfers to complete. “[The shotgun] is really an amazing building typology in that the same basic home can be found in every neighborhood of New Orleans, from the richest to the poorest,” Guthrie says. The nice thing about the typology, he adds, is its flexibility because the homes can be built as singles (typically 12 feet wide), doubles (24 feet wide as a duplex), and camel backs (a single or double with a second-floor addition). From these forms,
Guthrie adds, there can be many subtle variations.

The first home, which Miletus hopes will achieve a LEED Platinum rating, will be a 24-foot-wide market-rate model on a lot measuring just over 150 feet. Because of this, the firm says it was able to keep with the aesthetic of a traditional single but go a little wider on one side (14 feet), while also having a couple of small rooms (10 feet wide) on the side. The plan can have up to four bedrooms and will measure close to 1,800 square feet.

Costs will vary and will be driven largely by finishes. The shotguns can be built small, simple, and bare bones in the $125 per square foot range, Guthrie says, or big and embellished for an upscale neighborhood, where the cost could go well over $200 per square foot.

"These ingenious modular structures are substantial homes," Guthrie notes, "fully compliant with current building codes and FEMA standards, offering a sustainable, permanent solution to the current and near-term housing needs of New Orleans."—nigel f. maynard

Recalling the past, this shotgun model home is a near-term housing solution for post–Hurricane Katrina New Orleans.
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THE NAHB’S NEW BOARD CHAIRMAN, BOB NIELSON, CALLS ON ARCHITECTS TO ENGAGE THE MORTGAGE CRISIS

Bob Nielson and the National Association of Home Builders represent more than 160,000 members across the United States. A 25-year veteran home builder from Reno, Nev., Nielson has been on the front lines of affordable housing his entire career. Looking ahead, he thinks residential architecture is poised for some big changes, which will affect both how people live and how architects practice.

LIKE OTHER SECTORS, IT WILL TAKE TIME FOR HOUSING TO rebound as we climb out of this recession. One advantage we have, however, is the design and innovation capability of the architectural community. Our member architects provide invaluable perspectives on design trends and construction both locally and at the national level.

A recent NAHB survey shows some of the changes brought about by the recession. It indicates that smaller homes with lower prices and more green features will dominate the marketplace in the near future. Looking forward to 2015, builders expect homes to average around 2,150 square feet, or about 200 square feet less than at present. Generally, buyers will be looking for flexible spaces that can accommodate changing household configurations. The preferences of the aging Baby Boom generation will be a major factor.

Architects and interior designers also play leading roles in some of our most visible programs. One initiative is The New American Home, a custom-designed show house constructed annually at the NAHB’s International Builders’ Show to showcase innovative design. Member architects also serve on our Design Committee, which helps educate builders to improve residential design.

In my view, the most important thing architects can do to help facilitate a recovery is support the NAHB’s efforts to restore the flow of credit for acquisition, development, and construction (AD&C) financing to builders, and resolve the problem of appraisals that do not accurately reflect new home values. Largely as a result of the recession, credit for home building has dried up, and the use of foreclosures and distressed sales as comparables has resulted in appraisals that do not reflect a new home’s unique qualities.

It is also crucial that everyone in the housing sector supports the mortgage interest deduction and other housing-related deductions in the tax code. Eliminating or reducing these tax measures, as has been proposed, would have a devastating effect on homeowners and the housing market. However, the mortgage interest deduction and other housing-related deductions are likely to be in the crosshairs as Congress moves forward on budget and deficit reduction efforts. As told to Guy Horton.
Rolling On

A centenary storefront is transformed into an accessible live/work space

By Brennen Jensen

Tyler Engle, AIA, views the 1,600-square-foot Seattle storefront he renovated in 2007 as live/work space for real estate developer John Kucher and his wife, Tina Jacobsen, as a “little jewel box”—reimagined in a “scrapy and concise way.”

At first blush, the erstwhile drugstore would seem to have offered little for an architect to engage. It’s essentially a box. But there were some challenges to coming up with a design. For one, Kucher is in a wheelchair, so the space needed to be accessible. He also had a large collection of modern art to accommodate.

“Perhaps the biggest challenge was privacy,” Engle adds. “You have a storefront facing the street that’s only 8 feet from the curb.”

For the owners, flexibility was an important factor. “We really wanted a space that was good for the two of us but could also accommodate a dinner party for eight or a big party of 40,” Jacobsen says.

Seattle’s Tyler Engle Architects PS met these challenges head on, and the so-called scrapy redesign won the 2010 AIA/HUD Housing Accessibility—Alan J. Rothman Award.

The circa 1916 storefront, erected in the leafy Madrona neighborhood, had been awkwardly subdivided into offices sometime during the 1960s. Kucher bought it in 1985 and renovated it to serve as his company’s home base. In 1990, he decided to work and live there, unceremoniously turning one of the offices into a bedroom and preparing meals on a kitchenette tucked in the rear. But when Kucher, a widower, proposed to Jacobsen in 2006, the bride-to-be found the impromptu bachelor pad a clumsy fit for the sociable lifestyle they would pursue together. The kitchen, for starters, was barely functional and lacked counter space. This wasn’t a home so much as an office suite with a bed in one corner.

Engle’s redesign was driven by three concepts. First, the main 18-foot-by-25-foot living space was centered beneath a sizable 8-foot-by-12-foot skylight to give it the feel and...
function of a traditional courtyard house.

"The skylight was already in place but had a 1980s-cute zigzag opening," Engle says. "We cleaned it up and splayed the opening to reflect light downward, and used the opening as the center of the courtyard space." He then worked with Kucher and Jacobsen to design the wall space around some of the large modern paintings in his collection. The bedroom and full bath at the building’s rear sport clerestory windows to tap into the “courtyard’s” daylight. A flush-mounted pivoting door can completely seal off this domestic area when entertaining.

Several ideas were exchanged for the new kitchen (including keeping it at the building’s rear) before Engle developed the concept of combining the kitchen and a powder room into a “service core,” the dimensions of which suggest a shipping container. This “container” was then positioned between the storefront windows and the courtyard space to act as a privacy-enhancing buffer. It is clad on both sides with horizontal ipe boards, selected both for their warm color and their evocation of an exterior surface. Between this wooden wall and the front windows are a small office for Jacobsen and an entry hall/vestibule.

“It dissolved the line between inside and outside," Engle says. “With this exterior siding material you feel like you don’t really enter the house until you pass through the wood.”

To provide partial concealment of the now front-and-center kitchen, Engle’s third major concept was placing steel plates on either end of the bar island and the main cooking area to function as “blinders.” Guests entering the living room pass by the kitchen without noticing it. Meanwhile, as hostess, Jacobsen loves the configuration. “I never miss the action,” she says.

What of the accessibility requirements? These were handled with kid gloves. A new polished, charcoal-tinted concrete floor was laid, perfect for wheelchair mobility. The bathrooms feature pocket doors to maintain interior maneuvering room. The master bath also sports his-and-her sinks mounted at appropriate levels within a concrete counter.

“The whole idea was to accommodate without making a big deal about it," Engle says.

And this is just the way Kucher, injured in an accident as a young man, wanted it. By his own admission, he is in a “kind of denial” about his condition and didn’t want physical reminders of it in his home.

A potential problem spot was Kucher’s office in the rear corner of the building, where the demands of the elevation required the floor to be a few steps up from the main level. An interior 1:12 ramp would have been overly noticeable and likely cut into the living room. Kucher deems motorized lifts as “slow, loud nuisances.” The solution was simple: Kucher “commutes” to work by going out the front door and around the side of the building, where the sloping sidewalk serves as a ramp to a steps-free exterior office door. The trip even provides mental benefits, helping him separate work from home life.

“Our focus was not merely accessibility,” Engle says. “It was to provide a flexible space for a couple who has a great art collection to live and entertain.”

The architecture of the courtyard house - the big bad wolf at our front doors

Engle combined the kitchen and a powder room into a “service core,” the dimensions of which suggest a shipping container.

Pocket doors to maintain interior maneuvering room. The master bath also sports his- and-her sinks mounted at appropriate levels within a concrete counter.

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Clark D. Mamus, RAIA, 2011 President
leading light
a new family home sets an example for its community.

The design/build architects of Raleigh, N.C.—based Tonic Design are big on the synergies afforded by their way of producing buildings. Interweaving design and construction creates opportunities for improvisation, says principal designer Vincent Petrarca. “It’s like jazz.” The LEED for Homes-certified GREENville House in Greenville, N.C., demonstrates the power of such synergies, not only between design and construction, but also between modernism and sustainability.

The owners envisioned the house as an alternative model for their architecturally conservative community, Petrarca says. They favored modernist design, “and they had researched solar and geothermal from the beginning.” They also planned the house as a long-term family residence, and one of their requirements—children’s bedrooms on the second floor—influenced the building’s pinwheel-like footprint. The two-story section “creates a lot of shadow,” Petrarca notes. To maximize solar exposure, “the building stretches away from itself.” Petrarca and project designer Katherine Hogan developed a system of aluminum rooftop “trays” that support photovoltaic and solar thermal panels and turn down at the roof’s edge for window shading. (Solar thermal collectors supply the house’s hot water; when completed, the photovoltaic array is projected to meet 60 percent of its electrical load.) The house’s low-maintenance shell combines brick-, red cedar-, and zinc-cladding in an interlocking composition that blurs traditional distinctions among foundation, walls, and roof.

Features such as sustainably harvested woods, a geothermal heat pump HVAC system, and rainwater harvesting presented a learning opportunity for subcontractors unfamiliar with LEED—or with the EPA’s Energy Star and Indoor Air Plus programs, with which the project also complied. “Our cabinetmaker will now offer, to us and to any other customer, a ‘LEED option’ with low-VOC finishes and sustainable woods,” Hogan reports. “The HVAC company, the plumber, the landscape installer … everyone who worked on the project can now say they’ve done a LEED house. It becomes transformative.”—Bruce d. snider
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Like the house’s kitchen, the Wood Block Residence master bath “treats the casework as a block that can define programmatic spaces,” says architect Lisa Chadbourne. White lacquer cabinets describe a hook shape in plan, separating the bath from the master bedroom and enfolding a dressing room that is open to the bathing area. A toilet compartment serves as the boundary between the bath and the house’s public areas. With doors opening on both sides, it doubles as a powder room. “It’s not a large house, so sharing the powder with the master is an efficient way to handle them,” she explains.

The cedar-paneled ceiling flows uninterrupted from the kitchen, broken here by a skylight large enough to afford a view of the Pacific Northwest’s “drama of changing cloudscape,” Chadbourne says. Below the ceiling plane, Chadbourne and partner Daren Doss, AIA, maximized reflected light with a white-on-white palette of acrylic cement floors, acrylic cement plaster walls, lacquered cabinets, and stone-composite counters.---b.d.s.

White wall surfaces, cabinetry, and counters maximize reflected daylight. A cedar ceiling ties the bath to the house’s public areas.

resources: cabinets: Boloni; countertops: Caesarstone; flooring: Milestone; paints/stains: Cabot, Sherwin-Williams; plumbing fittings: Vola; plumbing fixtures: Duravit, Hastings, Newform; skylights/roof windows: Crystalite

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high light

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—by evelyn royer
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shredding borders

with the economic recovery stuck in low gear, u.s. architects are looking overseas for commissions.

by cheryl weber, leed ap

the call to Seattle architect Jim Olson, FAIA, in 2004 came out of the blue. It was a Hong Kong businessman wanting to commission a lavish villa for him and his wife. How did they find him? As Olson, founding partner of Olson Kundig Architects, tells it, the couple had spent a year researching architects independently of one another. At the end of that year, both had bookmarked an Olson-designed house in San Francisco. “Publications seem to be a very important part of our getting noticed outside the U.S.,” Olson says. “One was an international magazine, another was a book of architect-designed houses. The other was a Midwest Airlines magazine the husband happened to see on a plane.”

From that project came other Hong Kong commissions, and then Korean clients began calling. One was a large architecture firm asking Olson Kundig to collaborate on a design competition entry, which subsequently won. Among the firm’s current work in Asia are two prototype houses for a high-end residential development, an office building, and a cultural facility. The timing was fortuitous. “Our clients in Korea and Hong Kong were going strong in 2009 and 2010,” Olson says, while the American economy languished.

By plan or by chance, Olson Kundig is among a growing number of small to mid-sized firms whose work in other countries is helping to sustain them as our own economy struggles to its feet. Some are quietly capitalizing on the international relationships they’ve been building for decades. Others are tapping into construction sprees in China, India, and the United Arab Emirates that began in the mid-2000s. Although large offices have long cultivated global relationships, it’s only relatively recently that residential building booms abroad have opened a pipeline of opportunities for smaller U.S. practices—just in time, too.

an open door

“It’s been the thing that saves us through this period; otherwise our staff would be down to bare bones,” says Jeffrey Heller, FAIA, president of San Francisco–based Heller Manus Architects. continued on page 25
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The firm made its first foray into Asia in 2004, when Heller was invited to give a talk in Seoul, South Korea. After the conference he hopped over to Shanghai and was astounded by what he saw: a vast construction landscape of modern villas and flashy high-rises, fueled by the migration of hundreds of millions of people from farms to cities.

“In 2004, the U.S. economy was going great; we had no reason to go to China, but what was happening was clearly historic, and I was determined we’d get engaged,” says Heller, who, along with CEO and current AIA president Clark D. Manus, FAIA, heads an office of 20 to 30 employees. Heller networked his way to the first commission. A Chinese-American architect he’d known in San Francisco introduced him to the large architecture office in Shanghai that continues to be Heller Manus’ main partner there. Last year, two-thirds of the firm’s work was in China, where it has one full-time employee.

Not only is there plenty of construction in China, but much of it is fast-tracked, compared with the grinding pace of entitlement and financing that plagues U.S. projects. Heller blames bureaucracy as much as the Great Recession for choking off stateside commissions, especially in California. “It takes from three to six years to get projects done here, whereas in China...continued on page 27
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things are accomplished in one-quarter the time," he says. "That's having an enormous impact on the profession. In my view, they've found a path to success that we've lost. They're where we were in the 1950s and 1960s."

That's good news for many out-of-work firms. But why hire foreigners, when the Chinese could do the work quickly and for less money? What clients want, many say, is big-concept, abstract thinking, which they associate with a Western approach. What's more, often that translates to dream commissions that leave budget issues oddly out of the picture, offering architects an artistic freedom they haven't experienced since they were students.

One example of how different business dealings in Asia are from the typical American commission is Ehrlich Architects' work on the Taipei Towers in Taiwan. The Culver City, Calif., firm was asked to design the exteriors of five residential buildings ranging from 12 to 20 stories.

"The client requested a modern, uplifting design for this up-and-coming area," says Ehrlich principal Takashi Yanai, AIA, "and we wanted to bring our Southern California indoor-outdoor sensibility to the project. It was clear the developers were focused on achieving very high per-square-meter prices rather than just bottom-line goals. Sales targets often entered into the design discussion, but construction costs rarely did."

That's because labor is less expensive in that part of the world, and U.S. architects are valued for their creativity, not their project management skills, says David Jameson, FAIA, who runs a small firm in Alexandria, Va. He's designed three houses in Dubai and is working on a 25,000-square-foot house in Hanoi, Vietnam. "I got the call from Dubai on a Friday afternoon and thought it was a college roommate playing a prank," he remembers.

For the Hanoi project, Jameson was given continued on page 28
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practise

a program outline from a local architect hired by the owner, a Vietnamese entrepreneur. He asked for a modern, ideas-driven house but gave no clue as to construction budget. Starting with a blank canvas is “hard, but liberating,” Jameson says. “If you think of architecture as a unique situational aesthetic created through pressures, it becomes harder to pin down a direction. But the lack of constraints means more freedom.”

Still, there were clashing cultural overlays. The first concepts had to be modified to accommodate feng shui principles, such as a secondary entryway behind the front door. And the absence of cost discussions didn’t mean the client wasn’t budget-conscious—disconcertingly so. “You show them the real thing, and they want to find a company in Taiwan to knock it off,” Jameson says. “Their attitude was, whatever you draw, we can make it happen for the number we need.”

Payment can be touch-and-go, too. The Dubai houses weren’t built, and the client still owes Jameson money. “They’ve honored the close-out agreement and continue to send money, but sporadically, and in small increments,” he says. “It’s a bit Wild West-like.”

building relationships

Foreign work is a leap of trust. Distance is disturbing when a client goes quiet, and there may be little legal recourse if a project evaporates midstream. Those scenarios crossed Seattle architect Stuart Silk’s mind when the agent for a large Chinese corporation asked him to design nine of the 80 luxury homes at Zhongkai Sheshan Villas, outside Shanghai. The agent had seen Silk’s work while touring a gated community in Palm Springs, Calif.

“There’s no linear way to check out these companies, but you can get a sense of their viability by looking at work they’ve done,” says Silk, AIA, founding principal of Silk Architects. “My rule was to do no work without getting paid in advance. We spent more time on the payment schedules than on anything else. In the U.S. we bill monthly, but in China it’s task-based. You send PDF’s but not AutoCAD files until the money is in the bank.”

Careful networking can prevent horror stories of architects left holding the bag. The Atlanta firm Mack Scogin Merrill Elam Architects, which designed four of the Zhongkai Sheshan Villas, was invited in by a reputable colleague. Other recognizable names on the team also reassured the architects that the project was legitimate.

Another major factor was in their favor, too: Foreign architects in China assume little or no liability because construction drawings are done by a local design institute. Yet inevitably that means continued on page 30
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relinquishing some design control, an issue that principals Merrill Elam, AIA, and Mack Scogin, AIA, resolved up front. “We had decided that our designs would be strong enough to sustain that loose fit,” Elam says. “We built in a certain amount of flexibility about how all the details might be executed. And they were good about asking for clarification when they didn’t understand the intent.”

Elam has found that the biggest difference working in Asia is how buildings are constructed. A labor-rich market means clients aren’t looking for off-the-shelf products. They want architectural sizzle, and have the manpower to make innovative concrete forms that would be prohibitively expensive here. That’s also true in India, she says, where the firm has designed multifamily housing—now on hold—outside Hyderabad for the emerging middle class.

“There’s a lot of residential activity at the moment in India,” agrees Suman Sorg, FAIA, principal of Sorg Architects in Washington, D.C. “We hope it’s not a bubble.” Her mid-size practice has pursued U.S. State Department work abroad since startup. But the gush of private-sector work in India is new and has filled a void since 2008, when those commissions dried up locally. A New York–based developer is keeping the firm busy with projects such as the Grand Arch outside New Delhi, which includes 900 units of middle-class multifamily housing in high-rise and mid-rise buildings.

As in China, India is creating towns from whole cloth. Sorg is thrilled to avoid the Nimbyism common in Washington, where neighbors balk at the idea of modern insertions and try to influence design, not always positively. The work there, too, is less budget-driven than in the United States. Although Grand Arch’s first phase was in planning during the global market meltdown, the developer held the line, intent on spending what was necessary to create a buzz. “The client didn’t make the units smaller or cheapen the price,” Sorg says. “It arrived on the market in 2009, and there was a lot of worry it might be too high a price point. But it got a lot of publicity, and everything sold in 48 hours.”

Sorg Architects is confident enough that this past September it opened a New Delhi office. Not only will the 10 or so employees be available to manage projects through build-out, but Sorg sees this as a long-term investment. “At the moment it’s not for the sake of profit, but to have managers from America train Indian staff,” she explains. “We are getting graduates from an MIT sister university, training them to support us in projects all over the world.”

Networking—the basis of any ongoing marketing

continued on page 32
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practice

effort—is a more expensive proposition overseas. The managers travel back and forth every five weeks, and Sorg, a native of India, has an advantage over her American competitors. “Clients like the fact that I have their sensibilities,” she says. “I understand privacy issues in apartments, where you have in-laws living with you—all the things I experienced growing up.”

global neighborhood

The world may be getting smaller, but when the economy goes down in one pocket of the globe, it’s thriving in another. And the deeper the emotional ties to a particular place, the more natural the business fit. For San Francisco–based House + House Architects, that bright spot is Mexico, where principals Steven and Cathi House are grateful to find almost half their work these days. Many of those commissions come from another social force: American baby boomers wanting to retire or vacation where the cost of living is low.

For the Houses, who’ve been working in Mexico since the 1990s, marketing consists of little more than making friends during their stays in San Miguel de Allende, where they’ve built two houses for themselves, one a rental. They recently broke ground on a house for a Massachusetts couple they met on the street. Steven House, AIA, recalls, “We overheard this nice couple talking about where to have lunch. We started chatting, and invited them to our house later that afternoon. A few months later, they decided to retire there.” The rental house is a subtle way to attract clients. And their personal home, a fixture on the city’s Sunday house and garden tour, also draws tourists.

By now, the Houses are fully immersed in the local culture. Cathi House, who’s become fluent in Spanish, spent a week interviewing 20 local builders for their first project, and the one she chose has constructed all 19 homes they’ve designed there. Construction continued on page 34

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Desai/Chia architecture practices the art of subtraction and insertion, light and delight.

Arjun Desai and Katherine Chia, AIA, are urban to the core. The married architects live with their two young children in Manhattan and work in a seventh floor studio on a narrow street near Madison Square Park. The room’s white walls are punctuated by blocks of color, and a George Nelson cigar lamp hangs over a conference table holding exquisitely crafted models. Those models—mostly weekend getaways for their city clients—are of single-family homes, but they’re quietly cross-pollinated with urban ideas the pair has spent 15 years perfecting.

Since its launch in 1996, Desai/Chia Architecture’s focus has been on finding creativity in the city’s constrained spaces, but building in New York offers a framework for how to approach design just about anywhere. Limited to what an existing building offers, Desai and Chia are forced to be inventive about how they organize space and technical infrastructure. They’re working back and forth between the big concept—creating dual-purpose spaces that flow but feel intimate, getting the most from the mechanical systems—and the fine grain. What materials lend texture and warmth to windowless rooms? How do you brighten up dim interiors, and what fixtures will produce the best-quality light to express the architecture, almost like a painting?

Video installation artist and lighting designer Christine Sciulli is a frequent collaborator and fan. “They’re incredibly curious, always pushing a material to its limit,” says the New York-based Sciulli. “A lot of what we do together is play with light, using different materials to mock things up. What happens when daylight turns to dusk and the artificial light takes over? When the lights are turned on in one place, how does it affect adjacent spaces?”

Light craft
Consider the 4,000-square-foot industrial loft in Madison Square that Chia and Desai adapted for a family. Continued on page 38.
Inside the Madison Square loft, compact cores containing the private zones—kitchen/storage and bathrooms—are wrapped in light and textural materials, allowing the public spaces to flow around them. The slats on the media wall can be tilted manually to brighten the living area.
At Cooper Square (below), spun aluminum dome cutouts define the dining area and hide drainage pipes coming from the roof. Dimmable xenon fixtures create an even wash of light. In the bath, light bounces through the offset slats of wood-and-glass skin.

Paul Warchol

of four. Into the cavernous footprint they inserted two perpendicular wood-and-glass cores that light up the living zones. One defines the kitchen and storage area, another serves as a media wall and houses the baths. Both volumes are wrapped in vertical wood planks that stop shy of the high ceiling, implying a clerestory like that of a single-family home. Light also filters through the kitchen core’s offset ash slats, and those outside the bath can be tilted manually to emit more or less light.

These subtly ingenious moves differentiate the lit spaces from those in shadow, and they were meticulously studied in full-size mock-ups. “For the wood core system, we wanted to see how much light would come through the slats, explore the operability of the planks and their overall proportion, and the texture and patterning of the wood,” Chia says. “In the glass mock-ups we looked at different densities of acid etching and various angles so the light would refract and reflect off the surface.” She’s referring to the master bath’s glass wall panels, which are angled to produce a precise level of translucency and a luminous green hue.

“We tend to look at architecture that is simpler and dematerialized, so that space and light can flow,” Desai says. Growing up in Chandigarh, India, he was influenced by Le Corbusier’s early Modernist buildings, the intense sunlight, and the use of jali as room dividers that sift air and light. “We don’t stress form for form’s sake,” he says. “That hasn’t been our philosophy.”

New York’s arts culture embraces their enthusiasm for multidisciplinary design, and their obsession with materials. The couple found jobs here after graduating from the MIT School of Architecture + Planning in 1991. Desai did historic preservation work for Swanke Hayden Connell. Chia, who has a fine arts undergraduate degree, joined Maya Lin’s studio, where she learned to shape materials by hand.

creature comforts

The pair’s tactile sensibility results in an approach that juxtaposes the ethereal with finishes that are built to last. There are elongated bedroom doors, and a hall wall, wrapped in dark-colored laminate, which reflects light and resists fingerprints. In one loft bath, back-painted glass counterpoints a wall of penny-round tiles. In another, thin, linear wall tiles respond to the original white terra-cotta patterns in relic structural columns. “The urban environment has a strong history,” Chia says. “We feel like archaeologists, uncovering things and blending the new with the patina of the old.”

Recess Lav, a resin sink with an integrated backsplash and medicine cabinet, embodies the blend of practicality and expressiveness at the heart of their endeavors. Produced and distributed by AF New York, the clean sheath slips seamlessly into a compact bath, projecting just 12 inches when tucked into a stud wall.

Desai and Chia have found that the quirky challenges of city dwellings—doubling up functions in the workhorse parts of the home, lighting the dark zones, and cleverly layering spaces to keep them visually connected—transcend location and project type. “We’ve learned to be efficient in floor plan layout, so in new construction we’re not automatically jumping to bigger is better,” Chia says. “We’ve tried to be consistent in what we do, dealing with light and issues of openness and transparency,” Desai agrees. “We’ve been very conscious about how our work holds together as a whole.” It is a particularly relevant expression, given today’s focus on setting limits, and on quality over carte blanche.
Various lighting options—uplighting, downlighting, recessed—are used to set moods and expand the space for large gatherings, or bring it close for smaller ones.

At the Light Box Loft, translucent and transparent walls frame movement and provide glimpses between rooms.
live/work

streamlining life into one container raises design opportunities while narrowing carbon footprint.

artistic value

he client for this Whidbey Island, Wash., weekend house, Judy Geist, possesses a multitude of talents. As a Philadelphia Orchestra violist who has ties to the Pacific Northwest music community, Geist enjoys hosting chamber music concerts at home. And she also is an accomplished painter. When Brett Webber, AIA, LEED AP, signed on as her architect, she asked him to create a space that could accommodate both of her passions.

The boxy, modern house feels like a loft inside, with open spaces gathered around a central fireplace. On the north end, Webber and his team placed a double-height painting studio, basing its proportions on those of a studio he and Geist have admired at the Pennsylvania Academy of the Fine Arts in Philadelphia. Homasote, the fiberboard surface often used in artists’ workspaces, covers the lower half of the walls. The upper walls are dominated by a large, mostly translucent north window and an oversized interior shutter (made from a standard hollow-core door) that closes and opens over an east-facing, clear-glass window.

Webber knew early on that Geist would sometimes need separation from her studio. “Part of the artist’s dilemma is that you create chaos, and sometimes you want to leave that chaos,” he says. He and contractor Jeff Hanson jury-rigged a continued on page 42
project size: 2,500 square feet
site size: 0.4 acre
construction cost: Withheld
photography: Benjamin Benschneider, except where noted
Sculptor Agelio Batie located his work table near the front door of his studio (above), purposely within view of sidewalk passers-by. The workspace occupies the entire ground floor (right).

Generations of Americans grew up "living over the store," but Agelio and Delia Batle encountered some obstacles in pursuing that model for their family. "They looked long and hard for a building that would have the potential for mixed use," says principal architect Ned White, eventually locating a San Francisco building that seemed perfectly situated. Project architect Antje Paiz notes, "Everything uphill from their house is residential, and downhill everything becomes light commercial." Remodeled to balance both commercial and domestic concerns, the building houses such a rich and vital family life that it makes us wonder why we don't all live this way.

The family business, Batle Studio, produces art objects for sale in museum stores around the world. And while the Batles do not cater to a retail trade, "They really wanted to be part of the neighborhood," Paiz says. Accordingly, the building's new façade telegraphs its dual character, softening the edge of its corrugated metal siding with red cedar trim. Welded plate-steel planter boxes step downhill along the façade; a cedar-paneled entry with a steel I-beam awning above invites passers-by to the gallery area that occupies the front of the workspace. Inside, a stained topping slab covers the existing concrete floor, stretching through an open volume that contains studio, production, shipping, office, and kitchen areas.

A stair accessible from both the studio and the street leads to the family's second-floor apartment. At 1,000 square feet, living space is modest for a family of four, but the owners opted not to expand the existing space. "They wanted something that felt humble, not something that looked like a modern loft," Paiz notes.

continued on page 46
Corrugated metal siding signals the building's light industrial character, while red cedar accents hint at the residential half of its dual personality.
"Cost was a factor, but it wasn’t the vibe that they wanted.” The plan concentrates space in a kitchen/dining/family room that stretches the width of the building and overlooks the street. The owners’ penchant for found objects shows in the live-edge continuous sill of the room’s three windows and in the collage of antique furniture pieces that fills an adjacent corner. A four-riser difference in floor elevation helps separate the front room from the apartment’s single bath and its two compact bedrooms, sized for sleeping rather than hanging out.

In any case, and according to plan, life routinely overflows into the workspace below. “Delia runs the business side of the operation, and very often the kids are downstairs doing homework or art projects,” White observes. After hours, the studio is available as a home theater, getaway space, or party room. As a result, while the building supports a thriving commercial operation, it is the household upstairs that sets the tone. Even in work areas during work hours, White says, “There’s really a family atmosphere.”—b.d.s.
The living quarters' practical simplicity makes an appropriate backdrop for the owners' creations and inspired architectural details, such as the live-edge shelf/sill at the windows overlooking the street.
De Leon & Primmer Architecture Workshop turned abandoned city lots into light-filled office space for its firm and sleek living quarters for the partners. The large shutters and elongated bench (above) are gestures to the street.

inside job

The architectural canon is filled with great projects that flourished despite limitations. For Roberto de Leon, AIA, LEED AP, and M. Ross Primmer, AIA, principals of De Leon & Primmer Architecture Workshop in Louisville, Ky., a small budget helped the firm create a light-filled office space with enough room to accommodate living quarters for the principals and an apartment for summer interns.

De Leon and Primmer set out to find commercial office space in an existing building, but they changed course and instead sought a vacant lot to build something new. "It was a very pragmatic decision," Primmer says. "We looked at a lot of buildings but none seemed to fit." But even this plan had problems—mainly, a meager $230,000 to spend. As a result, the duo (with the bank’s encouragement) decided that a live/work project was the only way to make the endeavor financially feasible.

A long search yielded three narrow lots in the city’s Gallery District, a downtown neighborhood made up of a diverse mixture of building types. "Positioned mid-block, the project site is located among clapboard shotgun homes, brick mixed-use storefronts, and an early century firehouse complex," de Leon says. The building had to fit within the framework of the budget, de Leon explains, so it “couldn’t be more straightforward.”

The firm used common pole-barn construction for economy, with pressure-treated wood framing arranged on a standard 12-foot column grid and corrugated metal siding. "It was a way to make the project viable," de Leon says. The ground floor features an office, wood shop, and a guest suite for summer interns, while the second level houses two one-bedroom condos—one for each partner. Primmer explained that the intern apartment is important for attracting talent. "We may not be able to compete with the bigger cities, but a free room can offset a lower salary," he says.

To manage the budget, the partners used common off-the-shelf materials and simple finishes that in-

continued on page 50
Alternating bands of gloss and matte white paint on the walls of the ground-level office bounce and reflect light, while fixtures made from circular fluorescent bulbs and contractor-grade porcelain sockets add a botanical touch.
live/work

Natural light filters into all interior work and living spaces thanks to large glass openings and stark white walls.

clude drywall and white paint. In a stroke of modest detailing, the firm selected circular fluorescent light tubes mounted to contractor-grade porcelain sockets as a nod to flowering trees in the courtyard. To fit within the simple volume, the firm shifted the floor framing in height to interlock spaces volumetrically without increasing framing spans. “Light is the biggest luxury,” Primmer says. “We took a simple barn shape and sculpted apertures to get light.”

The building is located in a vibrant neighborhood with restaurants, art studios, and galleries. As a gesture to this vibe, the firm inserted a side courtyard, large entry shutters, and pedestrian-scaled elements.

Though de Leon and Primmer had no intention of doing a new building, the fortuitous circumstances led to this urban mixed-use building that benefits the neighborhood as well as the inhabitants and the firm. Living where you work is more sustainable and great, de Leon says, but it comes with drawbacks. “It’s a catch-22,” he jokes. “It’s highly recommended, but sometimes it’s hard to remove yourself from work.”—n.f.m.
For economy, the architects chose common off-the-shelf materials and finishes—such as porcelain tile, pine plank floor, gypsum, and sealed concrete—but detailed them to achieve a "custom" look.

project: Urban Barn, Louisville, Ky.
architect: De Leon & Primmer Architecture Workshop, Louisville
general contractor: James Kinzer, Bardstown, Ky.
project size: 4,667 square feet
site size: 0.172 acre
construction cost: $50 per square foot
photography: De Leon & Primmer Architecture Workshop
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Airstream trailers have long enjoyed popularity among architects and the architecturally inclined. When Matthew Hofmann, LEED AP, purchased and remodeled his own vintage 1978 Airstream, he liked it so much that he decided to make it his full-time residence. Not only does the Santa Barbara–based architect live in the 160-square-foot trailer, but he also uses it as his firm’s office.

The key to residing and working in such a small space, Hofmann says, is making sure every object serves more than one purpose. His main work area—consisting of a built-in dinette, a computer, and a printer stowed in a custom drawer—doubles as his dining area, and the seating converts to a guest bed. He tries to keep papers to a minimum, preferring to conduct business with digital files and documents as much as possible. “Anything you leave out turns to clutter really quickly,” he says.

Following a complete interior renovation, Hofmann restored the trailer’s original polished aluminum exterior. His handiwork inside and out has drummed up new business; after seeing his Airstream, several clients have asked him to customize their own trailers.—meghan drueding

Bamboo countertops and floors brighten the trailer’s interiors, as does a recycled-glass tile shower space. Hofmann’s workspace (above right) also serves as his dining area and guest room.
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the new necessary

the toilet category is abuzz with sleek designs and ultra high-efficiency products.

by nigel f. maynard

Washington, D.C.-based Studio Twenty Seven Architecture spends a fair amount of time talking about toilets. It’s “always a focus in our residential design,” says firm principal Todd Ray, AIA, LEED AP. But what about toilets is so important? According to Ray, the firm evaluates design, function, performance, and type.

It’s likely that Studio Twenty Seven Architecture is not unique among architecture firms designing either green homes, WaterSense homes, or homes in states—such as Nevada, California, Texas, and Georgia—with water problems. Architects talk about toilets because they play a huge role in water consumption and, therefore, an important role in conservation.

Water conservation is “huge” in Austin, Texas, says custom builder Matt Risinger, principal of Risinger Homes. “The city of Austin is doing all it can to help Austinites reduce water usage,” he says.

water marks

According to the U.S. Geological Survey, the average American citizen uses 80 to 100 gallons of water per day, and toilet flushing accounts for most of the usage inside the home. “That is why, in these days of water conservation, we are starting to see toilets and showers that use less water than before,” the group says.

Fortunately, the toilet category has moved fast in the past 10 years. Up until the mid- to late 1990s, Americans knew only about old toilets that flushed with up to 3 1/2 gallons of water or new models that adhered to the federal government’s mandated 1.6 gallons per flush. But then Australian manufacturer Caroma introduced the dual-flush toilet—a unit that uses a standard amount or a lower usage—and forever changed the category.

“We were approached by the Australian government about how we could help in water conservation,” says Derek Kirkpatrick, Caroma’s North America general manager. “It’s quite pleasing to see how the technology was adopted and caught on.”

Indeed, almost every toilet manufacturer offers a dual-flush toilet in some combination, from 1.6/1.1 gallons to 1.28/0.6 gallons. Dual-flush units qualify for WaterSense certification, a voluntary EPA program to help consumers reduce water consumption. These certified high-efficiency toilets must be 20 percent more water efficient than standard products.

Although Caroma is credited with creating the dual-flush toilet, other manufacturers such as Duravit, TOTO USA, and Kohler are major players. Dual-flush toilets have become so common that big box stores carry them and so affordable that you can buy one for less than $300. As a result, they’ve become popular with architects, green builders, and consumers. “Studio Twenty Seven’s preference—and more of our clients are asking for it—is a water-efficient dual flush,” Ray says.

Today, dual-flush units are no longer the primary water-saving option, however. Some companies are going even lower with single-flush units. Kohler, for example, offers two products—the Highline Pressure Lite and the San Raphael—that flush with only 1 gallon of water; Foremost Groups also features a 1-gallon flushing unit; and Stealth from Niagara Conservation uses a mere 0.8.

continued on page 56
Water savings isn't the only driver in the toilet industry, either—manufacturers are every bit as focused on design and functionality. There's even a burgeoning ultra high-end toilet category with products costing almost $7,000. The list includes the Neorest from TOTO; Regio from INAX USA; and the recently introduced dual-flush Numi from Kohler.

"We envisioned a toilet that creates a category in a caliber of its own," says Jim Lewis, Kohler's vice president of marketing. Numi is a dual-flush unit that uses 0.6 or 1.28 gallons per flush. It comes with an LCD touchscreen; built-in bidet and deodorizer; automatic open-and-close lid; built-in music system; and a heated seat and foot warmer.

"From our perspective, toilets have to be clever and well-engineered, but they also have to look good," says Timothy C. Schroeder, president of Duravit USA. This might explain why Duravit taps some of the biggest names in architecture and design to create its floor- and wall-mounted products. Recently, the company unveiled a new line of multifunction toilet seat/bidet products called SensoWash, which offer heated seats, a variety of wash settings, illumination, and a powered lid and seat. "It's a luxury and there's a cost associated with it, but it brings a tremendous amount of technology to the space," Schroeder says about SensoWash. "We believe it will be accepted."

**drain pain**

Despite their good looks and water efficiency, the newest toilets on the market are not without issues. Some products, for example, might be using too little water.

"There is a limitation on how low we can go," Kirkpatrick says, adding that more research on the matter is needed. "At 0.8 gallons, the drain line could be affected. We're not sure if 0.8 gallons is enough to take waste out of an old house. There could be roots in the line and the slope of the pipe could be less than ideal."

This fear might be justified. San Francisco's push for low-flow toilets has resulted in more sludge backing up inside the sewer pipes, creating the smell of rotten eggs. This could become a problem in other areas as well since many industry officials believe more states soon will follow California in mandating high-efficiency toilets.

Another issue that's come to light is the small water area in low-flow toilets. As Duravit's Schroeder explains, traditional toilets in the U.S. have a restricted flap and a large water area. But low-flow toilets, he says, typically use a washdown system and have an unrestricted flap but a smaller water area, which could lead to markings in the bowl.

"I'm not a fan of dual-flush units with a low water spot," custom builder Risinger says. "They soil easily and the additional savings of a lower flush isn't worth the additional cleaning flushes."

Studio Twenty Seven Architecture's Ray says he has not yet found the perfect toilet, but he does have advice for getting the best out of your spec. He opts for wall-hung units, which are easier to clean and "provide for unobstructed floor surface for mopping," he explains. And he often selects toilets that offer pressure assistance—"desired for that thorough bowl cleaning."

"We [make] the initial toilet recommendation to the client based on the design of the space, the client's preferences and sensibilities," says Rob Whitten, principal of Portland, Maine-based Whitten Architects. But the firm also seeks the advice of plumbing contractors. "They know which models have performance problems and which manufacturers stand behind their product with parts and service," Whitten says. "No owner (or architect) wants a toilet with problems regardless of its appearance."
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COURSE TITLE
Illustrative Guide to Classical Moulding Design for Cabinetry & Furniture

COURSE OVERVIEW:
This new course explains how the standard language of classical design is versatile and can be adapted for modern use in cabinetry designs. This course discusses correct proportions for cabinetry and moulding build-ups in kitchens and baths, according to different design programs. It also covers how to successfully combine moulding shapes and motifs, how to design with classical language within different cultural styles, and how to always be able to adapt known precedents to match present design issues.

OUTLINE:
This course covers these areas of interest:
- Classical proportions and ratios of mouldings based on size of room
- How to create and adapt classical moulding build-ups
- Cabinetry design concepts
- Combining moulding shapes and motifs
- How to use mouldings in different applications

WHO SHOULD TAKE COURSE:
This course will benefit any design professional that would like to successfully create unique and proportionally correct cabinetry and furniture pieces in their design programs.

COURSE CREDIT: 1 LU

ABOUT WHITE RIVER™
Founded by Bruce and Joan Johnson in the mid-70’s, White River™ is known industry-wide as a leader in the design and manufacturing of elegant hardwood mouldings and handcarved woodcarvings for the Millwork and Kitchen & Bath Industries. Based in Fayetteville in the Northwest Arkansas corridor, White River™ offers over 2,250 decorative embellishments in hardwoods including mouldings, corbels, onlays, cabinet parts, and more.

For more information or literature about White River™, call 1.800.558.0119 or visit www.WhiteRiver.com.

Go to http://resarch.hotims.com for more info
new material

by nigel f. maynard

control yourself

With the introduction of the new RainBrain, high-design German faucet manufacturer Hansgrohe has gone high-tech. The electronic computer system for the shower allows users to control features such as spray mode, temperature, music, and lighting. A warm-up function flushes out cold water and automatically adjusts to the preset temperature, and an anti-scald option protects bathers from burns. The unit is touch-activated and can be preset for up to four people. Measuring 5 3/8 inches by 9 5/8 inches, it comes in a white/chrome finish. Hansgrohe USA, 800.334.0455; www.hansgrohe-usa.com.

sheep's clothing

Made from natural and sustainable sheep wool, PermaLoft might be the only loose fill, blown-in wool insulation in the world, the company claims. It reduces heating and cooling costs by eliminating voids and air pockets common with other materials and does not require protective clothing for installation. Oregon Shepherd, 888.629.9665; www.oregonshepherd.com.

thin lines

Invisiled Pro is one of the thinnest undercabinet lighting products on the market. Designed for cabinets, coves, and other architectural applications, the product measures less than 1/8 of an inch, and installs easily with self-adhesive tape. The dimmable LED product produces 200 lumens per foot and has a potential life span of 50,000 hours. It comes in 1- and 5-foot sections. WAC Lighting, 800.526.2588; www.waclighting.com.

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ONLINE COURSES:

Propane Gas Underground Systems: Residential Infrastructure Requirements and Energy Benefits

COURSE OBJECTIVES
• Compare the benefits of different energy sources for fueling or powering the home.
• Identify the benefits of using propane to fuel homes.
• Describe different propane applications and list storage options.
• Outline underground propane tank installation considerations and identify the benefits of underground propane tanks.

NAHB APPROVED
AIA CREDIT: 1 LU/HSW/SD HOUR
USGBC CREDIT: 1 GBCI CE HOUR

Go Green with Propane: An Overview of Propane Gas Systems for Green Residential Construction

COURSE OBJECTIVES
• Identify multiple energy sources, including hybrid systems, and the benefits associated with each.
• Describe residential propane storage options and applications for green building.
• Explain the impact of fossil fuels and electricity on the greenhouse gas effect.
• Identify the NAHB Green Building Standards and LEED for Homes guidelines, and explain the benefits a homeowner receives from building a green home with propane.

NAHB APPROVED
AIA CREDIT: 1 LU/HSW/SD HOUR
NARI CREDIT: 0.1 CEU HOUR

Water Heaters: Retrofitting from Standard Electric to Gas Tankless

COURSE OBJECTIVES
• Compare the performance benefits of heating water with propane versus electricity.
• Describe two ways in which tankless water heaters save money when compared to tank-type water heaters.
• Explain the impact of fossil fuels and the generation of electricity on the greenhouse gas effect.
• Identify water heating retrofitting opportunities, including specification and installation of a tankless water heater.

NAHB APPROVED
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USGBC CREDIT: 1 GBCI CE HOUR

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Hydronic Heating in Rural Residential Applications

COURSE OBJECTIVES
• Describe what hydronic heating is and why this alternative heating system benefits homeowners.
• Identify at least three parts of a hydronic system and at least two alternative fuel sources.
• Classify at least two different heat emitters by component and location.
• Identify alternate heating uses, other than residential space heating, for hydronics.

Propane-Enhanced Renewable Energy Systems

COURSE OBJECTIVES
• Explain why a supplemental energy such as propane is often required in combination with renewable energy technologies.
• Describe how propane supplements three types of alternative energy technologies.
• Identify at least three things that need to be considered before specifying a residential alternative energy system.
• Identify three basic functions of common features in three types of renewable energy technologies.

A Comparative Analysis of Residential Heating Systems

COURSE OBJECTIVES
• Describe general trends when comparing standard- and high-efficiency heating systems with dual-fuel or renewable energy systems.
• Explain how carbon emissions differ among heating systems and why that can vary depending on location.
• Compare and contrast trade-offs involved in specifying high-efficiency HVAC equipment for residential projects in terms of payback periods.
• Describe where certain types of HVAC systems may be most appropriate based on factors such as location, operating costs, or efficiency.

Innovations with Propane Gas for Outdoor Residential Use

COURSE OBJECTIVES
• List at least three outdoor residential uses for propane.
• Describe the safety and environmental benefits of using propane in residential applications.
• Compare and contrast greenhouse gas emissions of commonly used residential energy sources.
• Describe the sustainable energy benefits of building with propane-fueled systems and appliances.

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Community Propane Systems: Economic, Environmentally Responsible Energy Without Geographic Limits

COURSE OBJECTIVES
- Identify two environmental benefits of using propane instead of natural gas as a community energy source.
- Describe Sustainable Development Pillars and the impact of greenhouse gasses on climate change.
- List the NAHB Green Building Standards and applicable strategies to earn points toward green home certification.
- Describe applications for propane energy inside and outside the home.

NAHB APPROVED
AIA CREDIT: 1 LU/HSW/SD HOUR
USGBC CREDIT: 1 GBCI CE HOUR

Retrofitting Homes from Heating Oil to Propane: Efficiency, Economic, and Environmental Benefits

COURSE OBJECTIVES
- Describe the history and current use of heating oil in the United States.
- Identify which alternative energy sources are available to current heating oil consumers.
- Complete a heating analysis of alternative energy choices.
- Identify why propane is a superior alternative to heating oil from both an environmental and energy-use perspective.
- Explain considerations when converting from heating oil to another energy source.

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Specifying Propane Standby Generators: Installation and Value Considerations

COURSE OBJECTIVES
- Explain common reasons for power disruptions.
- List the three main kinds of standby generators available for the residential market.
- Identify the most reliable and appropriate fuel choice for an environmentally friendly and energy-efficient generator.
- Identify how to properly size a generator to ensure the home is safe, secure, and comfortable during power outages.

NAHB APPROVED
AIA CREDIT: 1 LU/HSW/SD HOUR
NARI CREDIT: 0.1 CEU HOUR
USGBC CREDIT: 1 GBCI CE HOUR

Propane Enhanced Solar Water Heating

COURSE OBJECTIVES
- Describe why solar water heating is a viable and reliable water heating method for residential remodels and new construction.
- Describe why solar water heating is not sufficient in many parts of the country, and compare two energy sources that can supplement a solar water heating unit.
- Describe how a solar water heating unit works with a propane-fueled backup tankless water heater.
- Review a spec for a solar water heater with a propane-fueled backup tankless water heating unit.

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A Comparative Analysis of Residential Water Heating Systems
COURSE OBJECTIVES
- Explain the need for an analysis of water heating systems and briefly describe the methodology of this study.
- Describe the factors that contribute to energy costs varying by region and climate.
- Compare and contrast the environmental and economic benefits of the systems in each climate.
- Identify the conclusions reached from the analyses of water heating systems.

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Residential Energy Performance Upgrades: An Energy, Economic, and Environmental Analysis
COURSE OBJECTIVES
- Explain the difference between elective and non-elective energy-efficiency measures (EEMs).
- Identify the most beneficial EEMs in each of the five climate zones outlined in the study.
- Determine approximate payback periods for EEMs in your projects that are similar to those covered in the study.
- Discuss how you would convey the costs and benefits of EEM options to your clients.

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Understanding the 2009 IECC Energy Code, Advanced Efficiency Programs, and Their Implications for Propane
COURSE OBJECTIVES
- Identify the regions in the United States where propane is likely to be used in new homes and with what appliances.
- Discuss the structure of the 2009 IECC code and the sections that impact propane in new single-family homes.
- List the IECC's major compliance paths and describe the minimum efficiency requirements for propane-fired residential equipment.
- List at least two different green building codes and standards and describe how propane can contribute to gaining points in those programs.

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USGBC CREDIT: 1 GBCI CE HOUR

PRINT COURSES:
Expanding Outdoor Living: Using Propane for Efficient and Sustainable Outdoor Living
COURSE OBJECTIVES
- Describe why furnished outdoor spaces are becoming popular among homeowners and designers.
- Describe at least three considerations that should be taken into account before designing an outdoor space.
- Describe at least three features fueled by propane that are often part of outdoor spaces.
- List at least three facts about propane related to its low environmental impact.

AIA CREDIT: 1 LU HOUR
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Condensing Tankless Water Heaters:
Using Propane for the Most Efficient Water Heaters on the Market

COURSE OBJECTIVES
• Describe how a condensing tankless water heater works and outline the possible advantages for use in a residential setting, especially in retrofit situations.
• Describe how new Department of Energy standards and upgraded Energy Star ratings will change the landscape of residential water heaters.
• Explain why Energy Factors (EFs) don’t always reveal the best value.
• List at least three facts about propane’s low environmental impact.

AIA CREDIT: 1 LU/HSW/SD HOUR
NARI CREDIT: 0.1 CEU HOUR

Heating Oil Conversion: Exploring Propane as a Viable Alternative Energy Source

COURSE OBJECTIVES
• Describe the history and current use of heating oil in the United States.
• List alternative fuel sources that are available to current heating oil consumers.
• Complete a heating analysis of alternative fuel choices.
• Understand why propane is a superior alternative to heating oil.

AIA CREDIT: 1 LU/HSW/SD HOUR
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Living Off-Grid: Power Generation and Storage Basics

COURSE OBJECTIVES
• Describe why living off-grid has become more appealing.
• List the technology and components required to generate and store power in an off-grid home.
• Describe the functional and practical differences among portable, stand-by, and off-grid generators.
• Compare the advantages and disadvantages of diesel fuel and propane for off-grid use.

AIA CREDIT: 1 LU/HSW/SD HOUR
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Fulfill your CEU requirements and learn about the benefits of building with propane today by taking free courses at propanetrainingacademy.com.

MORE TRAINING OPTIONS

Training opportunities don’t end with continuing-education courses. The Propane Education & Research Council offers a number of excellent research studies and training videos at buildwithpropane.com.

Under the website’s Resources tab, research highlights include:

- Whole-House Analysis of Energy-Efficiency Upgrades
- Heating-Oil Conversions: Evaluating the Alternatives
- Propane-Enhanced Renewable Energy Systems
- Comparative Heating Systems Study

The website’s Multimedia Library has training videos on a number of subjects including:

- Converting an Oil-Fueled Boiler System to Propane
- The Future of Propane
- Achieving Affordable and Impactful Energy Efficiency
- Residential Multi-Unit Tankless Water Heaters
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8 hour business boot camp with others experiencing similar business situations

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Take three 75-minute sessions each of these days

Day 4, Saturday:  
Wrap up the program with two 75-minute sessions

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5. Multifamily Housing
6. Single-Family Housing (including production, speculative, prototype, attached or detached)
7. Affordable Housing
8. Architectural Interiors (build-outs, interior renovations)
9. Campus Housing
10. Light Commercial (any building type four stories or under)

**SPECIALTY ENTRY CATEGORIES** ($95)

11. Outbuilding
12. Kitchen
13. Bath
14. Architectural Design Detail
15. On the Boards (any unbuilt residential project not yet completed)

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Nov. 11, 2011

**COMPLETED ENTRY DUE**
Dec. 9, 2011

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When Rame Hruska, AIA, and Russell Hruska, AIA, decided to design and build their own live/work studio and residence, they didn’t stop at the borders of their site. Instead, the Houston couple also developed several surrounding lots, designing and building modern houses for custom clients—“people with like-minded values,” Rame Hruska says.

Within the neighborhood they’ve created, the Hruskas have devoted their home’s first floor to the office of their firm, Intexure Architects. The Hruskas, associate Shawn Gottschalk, Assoc. AIA, and a rotating cast of interns populate the 1,500-square-foot studio (shown at left), which receives plenty of natural light and ventilation. Upstairs, a 650-square-foot area functions exclusively as living quarters for the Hruskas and their 3-year-old son, Tad, while another 850 square feet serves as flexible space.

Simple materials and finishes helped control the live/work project’s cost. Its vibe is relaxed and friendly, right down to the Intexure-designed community pavilion outside.—meghan drueding
The NanaWall VSW65 SwingSlide
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