

ARCHITECTURE MN

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SPHERE OF INFLUENCE

Minnesota architects extend their reach with ground-breaking projects in Lebanon, Sri Lanka, and South Korea.

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PARIS IN FOCUS

The City of Light cools down in ravishing black-and-white photographs by architect Pete Sieger, AIA.

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RAREFIED AIR

AIA Minnesota's Gold Medal goes to David Salmela, FAIA, an architect in the prime of his career.

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Around the World

Design for Culture and Climate on the Mediterranean Sea

COVER: CHARLES HOSTLER STUDENT RECREATION CENTER
AMERICAN UNIVERSITY OF BEIRUT
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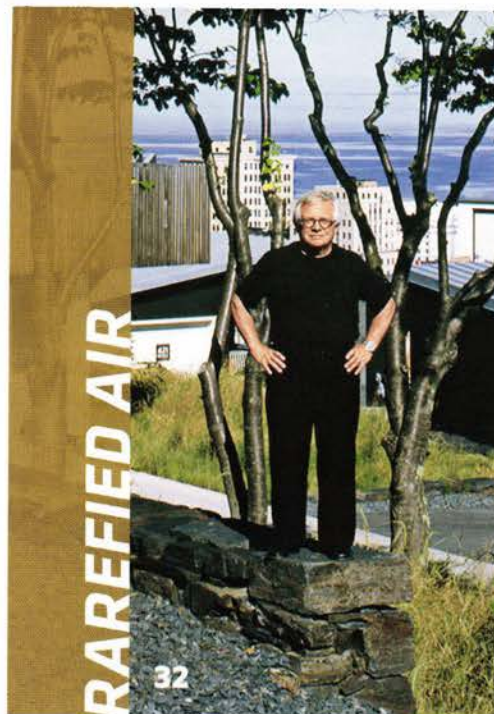
Architecture Minnesota, the primary public outreach tool of the American Institute of Architects Minnesota, is published to inform the public about architecture designed by AIA Minnesota members and to communicate the spirit and value of quality architecture to both the public and the membership.



ON THE COVER

Charles Hostler Student Recreation Center,
American University of Beirut

"With the sounds of Arabic and English words mixing and an occasional breeze lifting off the Mediterranean, the American University of Beirut campus offers a calming counterpoint to the bustling sensory theater of the surrounding city," says photographer **Paul Crosby**.



Features

32 *Rarefied Air*

By Thomas Fisher, Assoc. AIA

"I haven't done things the way that most architects do," David Salmela confesses. "I didn't go to architecture school, I didn't have a mentor, I didn't work for big firms, and I didn't live where most architects live." But that didn't keep him from capturing Minnesota's highest architectural honor.

35 *Sphere of Influence*

Minnesota architects are doing some of their most thrilling work elsewhere in the world, leaving their mark on places as distant as Lebanon and Sri Lanka. Join us on a globetrotting architecture tour.

Climate Zone: Charles Hostler Student Recreation Center

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By Thomas Fisher, Assoc. AIA

Modern Epic: Epic Systems Corporation Headquarters

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By Linda Mack

Seoul Provider: Samsung Cancer Center

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Next Top Model: Embassy Medical Center

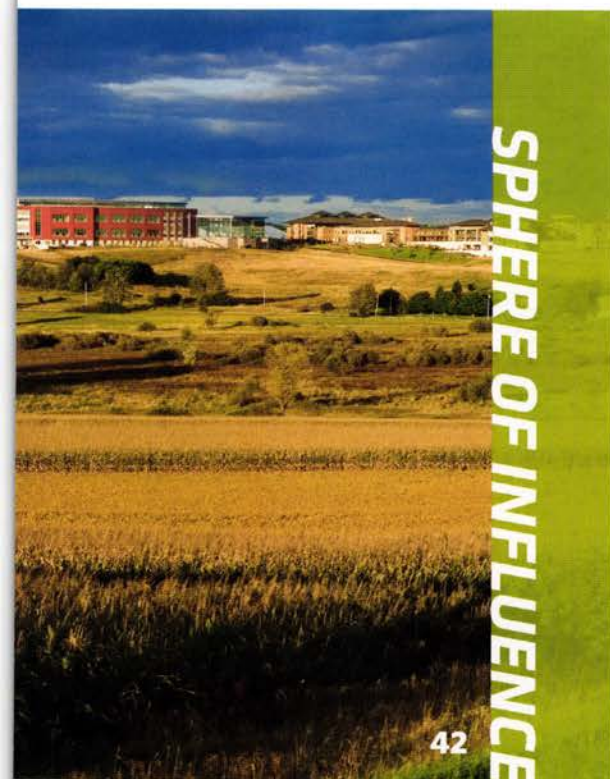
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By Camille LeFevre

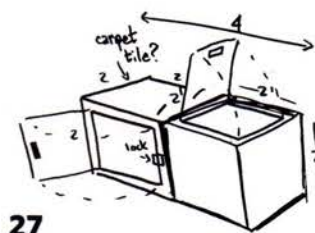
56 *Paris in Focus*

Photographs by Pete Sieger, AIA;
introduction by Glenn Gordon

Pyramide du Louvre, by I.M. Pei. Dominique Perrault's Bibliothèque Nationale de France after rain. Île Saint-Louis from across the Seine. These are a few of the Paris landmarks photographed in black and white by Minneapolis architect-photographer Pete Sieger over the course of the past decade, and the results are breathtaking. "Sieger loves the black and white tradition," writes Glenn Gordon. "He looks at this classic city in a classic way."



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BY NANCY A. MILLER

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You might call the Minnesota chapter of Architecture for Humanity the first responders of the architecture world.

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BY MARY SHAFFER, AIA

A Golden Valley architect traveling to India is "transported to a world of sensory surplus" the moment she disembarks the plane.

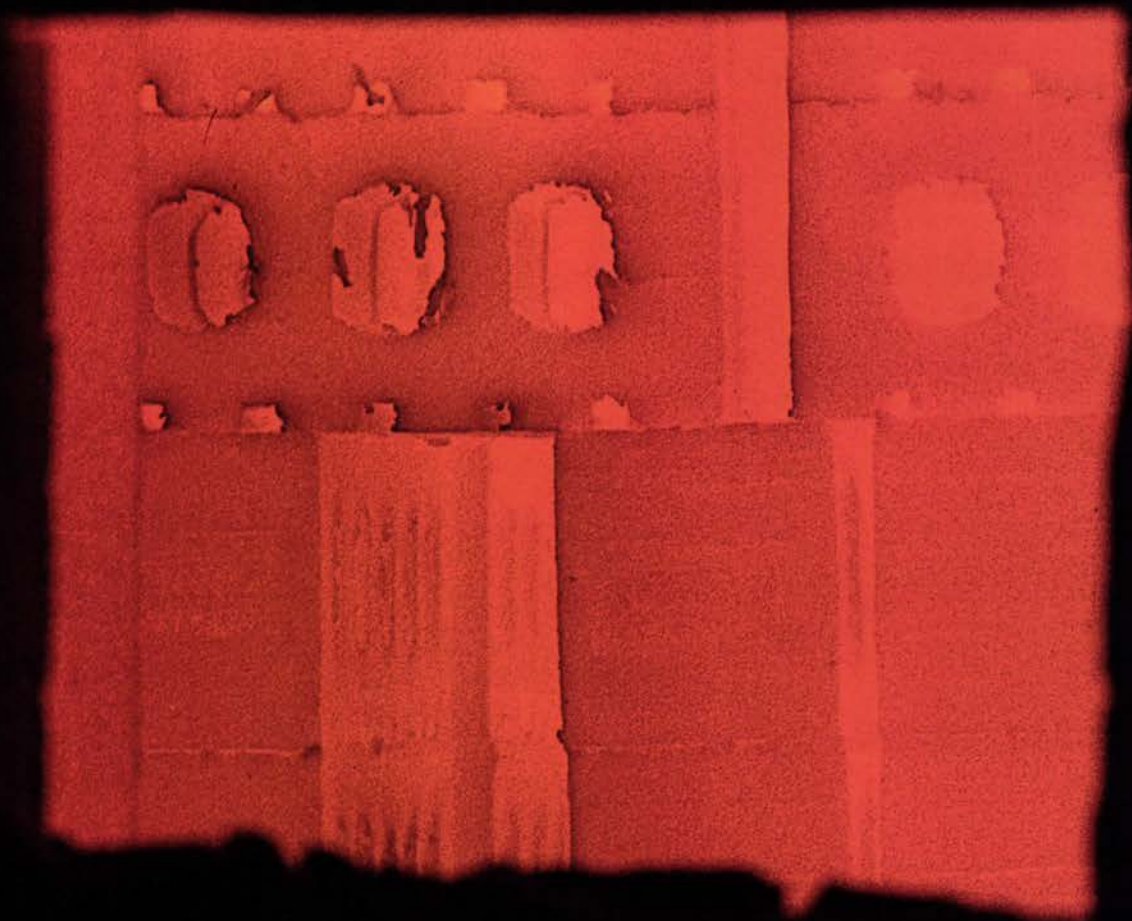
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George Heinrich photographs an art exhibition on the immigrant experience. The gallery is unusual, to say the least.

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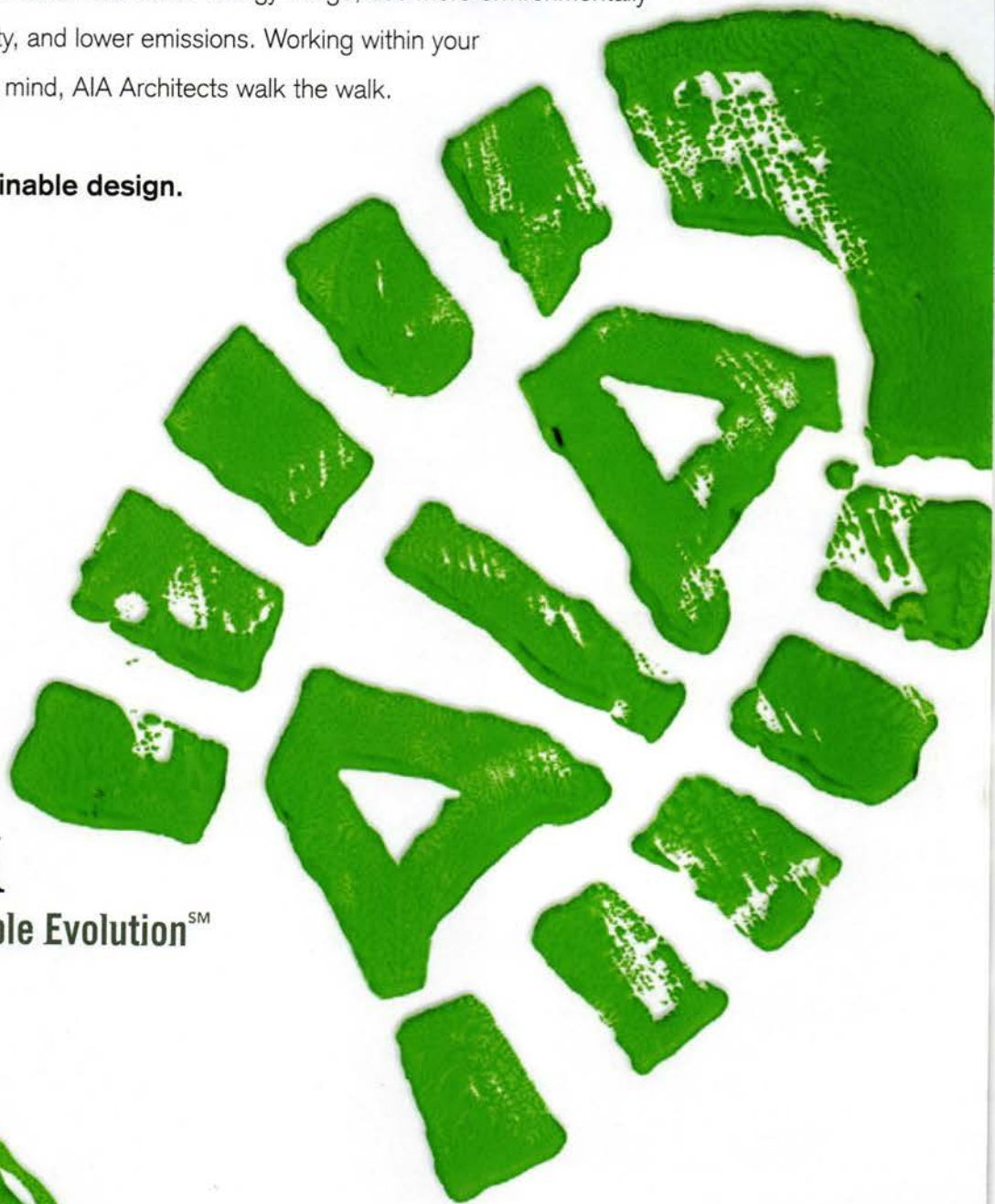
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If you've traveled overseas, then you've probably had the experience of feeling energized by the design character and vitality of an exotic city—and a little melancholy that you couldn't bring those qualities back to your hometown. That's been my experience in assembling this issue on some of the best recent architecture around the world by Minnesota architects. When I look at projects such as VJAA's sophisticated, climate-sensitive Charles Hostler Student Recreation Center (cover, page 36) at the American University of Beirut and Perkins+Will's ultra-green design for Embassy Medical Center (page 50) in Sri Lanka, I'm both in awe that we have this caliber of design talent and vision in Minnesota, and wishful that we could unleash even more of it here at home.

I asked University of Minnesota College of Design dean Thomas Fisher, Assoc. AIA, who wrote our Hostler Center feature, if he sees Hostler as an example of there being greater demand overseas for show-stopping sustainable design, or whether the project is simply the fruit of a progressive institution seeking to raise its profile. Mostly the latter, Fisher confirmed, but the question got him thinking. "I think the United States has lost a lot of its confidence and its ability to take risks," he observed. "When you look at what's going on in Dubai and China and even in places like war-torn Lebanon, and you're asked a question like the one you've just asked—Why don't we do more buildings like that here?—it's almost as if our whole system

has become clogged with risk aversion. Obviously there are exceptions; there still are clients who are willing to support adventuresome architecture. But I just think that, between what's been happening economically in this country and what's been happening in terms of litigation, it's made clients more averse to doing projects like this."

I put a similar question to Doug Pierce, AIA, one of the Embassy Medical Center architects. When completed, Embassy will achieve a level of sustainable design rarely seen in the U.S. in a building of that scale (it will exceed LEED Platinum standards). Is this evidence that Sri Lankans are beginning to place a higher premium on environmental stewardship than we are? Pierce offered some perspective: "Countries like Sri Lanka and India are not as developed as the U.S.; there isn't as much infrastructure in place. So if you want to do a Western-style hospital there, you potentially have to do things like provide your own power, water, and sewage." What makes Embassy so extraordinary is that it uses renewable energy to supply these needs. "Instead of using fossil fuel-based diesel generators," Pierce explained, "we're using bio-methane-driven generators. We're dealing with sewage in ecologically based ways, and so on."

But doesn't the client's embrace of renewable energy reflect a heightened awareness of environmental challenges? "Absolutely it does," Pierce continued. "For example, people in developing countries are often much more in tune with climate-change issues than Americans are. I think part of the reason for that is, they see global warming *happening*. They are more directly affected by extended droughts. Getting good food and water is simply more challenging for them. We Americans, on the other hand,

Does the design climate in the U.S. differ from that of other countries? Two leading architectural voices in Minnesota weigh in.

EDITOR'S
NOTE

LOOKING *abroad*

are somewhat insulated from the impacts of global warming and environmental degradation because we have such robust resources and so much energy."

Perhaps if we spent more time examining green building efforts abroad it would accelerate the cultural shift toward sustainability at home. Pierce, for one, says the opportunity is ripe. "Humans can be very clever," he observed. "We've got all the technology we need, and we've got lots of resources—at least for now. If we adjust the way that our economy and our cities work, things could work out for the better. But we need to take action *now* in order for that to happen."

Chris Hudson

Christopher Hudson
hudson@aia-mn.org

@ **the threshold**
A QUICK GUIDE TO ARCHITECTURE
MINNESOTA DISCUSSION ON THE
AIA MINNESOTA BLOG

What might an Embassy Medical Center (page 50) built in Minnesota look like? Are most of the project's sustainability strategies appropriate for our climate? Doug Pierce, AIA, a member of the Embassy design team, shares his thoughts on these questions and invites you to do the same at aia-mn.blogspot.com.

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The Art Institute of Chicago opened the doors of its Beaux Arts building, designed by Shepley, Rutan & Coolidge of Boston, on the site of the World's Columbian Exposition in 1893. The building's classical, symmetrical façade reflected what had become a design standard for museums in the 19th century. The Art Institute expanded several times throughout the 20th century but maintained its elevated, colonnaded entrance on Michigan Avenue. Although the temple front has become the icon of the museum, the institution has not resisted change or modern design. In 2009 the Art Institute will open its new Modern Wing, which will increase gallery space by 30 percent. Designed by world-renowned Italian architect Renzo Piano, the new wing is a rectangular, minimalist structure wrapped in a sunscreen of thin fins, with a visually light, flat roof. It lies on the celebrated 25-acre Millennium Park development, which is anchored by the Frank Gehry-designed Jay Pritzker Pavilion.

Current exhibitions include "Henri Cartier-Bresson and the Art and Photography of Paris" (through January 4, 2009) and "Daniel Burnham's Plan for Chicago," 32 rarely displayed illustrations of Burnham's 1909 Beaux Arts plan for the city (through December 15, 2009).



DES MOINES ART CENTER

Des Moines Art Center

www.desmoinesartcenter.org

Eliel Saarinen won the commission to design a modern building for the Des Moines Art Center based on his firm's winning design for the Smithsonian Gallery of Art in 1939

(unbuilt). With the Smithsonian as a model, the Art Center echoes Saarinen's designs for the Cranbrook campus in Bloomfield Hills, Michigan. The low, horizontally oriented, U-shaped structure, clad in limestone and tucked into the trees of Greenwood Park, opened in 1948. Twenty years later, the museum hired I.M. Pei to design an addition. The two-story gallery, which closed off the open end of the original building, has large areas of glazing set within a pattern of deep openings in a bush-hammered concrete structure. A dramatic V-shaped roof visually lifts the gallery out of the woods. The 1985 Richard Meier addition is geometric, tight, and, for some, a bit standoffish. Meier made one nod to Saarinen's building, applying a limited number of stone panels to his usual palette of all white porcelain-enamel metal panels. (See page 23 for more on the Des Moines Arts Center.)

Current exhibitions include the large-scale paintings of Chinese artist Yan Pei-Ming (through January 4, 2009).

Got some free time and an interest in design? Culture Crawl rounds up the latest cultural offerings from around the region.

CULTURE
CRAWL



TIMOTHY HURSELEY

Milwaukee Art Museum

www.mam.org

The original Milwaukee Art Museum, opened in 1957, is one of Eero Saarinen's lesser-known designs. The hard-edged, squat, concrete building is not easy to love—and not easy to comprehend within a body of work that includes the St. Louis Arch and the TWA Terminal. A scaled-back revision of a much grander scheme that was to be built in downtown Milwaukee, the building feels a bit compromised, even as its cantilevered wings offer dramatic views of Lake Michigan from Veterans Park. In the late 1990s, Santiago Calatrava descended on Milwaukee with his own ideas about how to use wings to dramatic architectural effect. The Quadracci Pavilion, designed by the Spanish engineer/architect and opened in 2001, is a crowd-pleaser. Its iconic, kinetic wings, which open and close twice daily, have made the museum an international tourist attraction.

Current exhibitions include "Sensory Overload: Light, Motion, Sound, and the Optical in Art Since 1945" (through October 1, 2009) and "Act/React," installation art that invites visitor participation (through January 11, 2009).

—Nancy A. Miller

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U+B



U+B Architecture & Design's loft-like studio on Minneapolis' Eat Street encourages a free exchange of ideas—and perhaps a few too many lunches out

Culture+Collaboration

A cartographer works next door to an Asian supermarket, a wig salon shares its lobby with a dentist, and a 540-acre luxury resort in Morocco is being designed in an architecture studio upstairs from a meditation center. This culturally and commercially eclectic stretch of Nicollet Avenue is exactly what Paul Udris, AIA, and Mark Burgess, AIA, of U+B Architecture & Design (the aforementioned studio) were looking for when they moved their office out of Udris' basement in 2004. "I wanted a place where there was activity and a real kind of street life," Udris explains. "Our clients, when they visit, don't feel like they're in a typical architectural office."

Often working with independent owner-proprietors, U+B (www.uplusb.com) takes a

collaborative approach to architectural design, and its loft-like studio, recently expanded to occupy the entire 2,800 square feet of the upper floor of the building, helps facilitate opportunities for creative interaction. The oversized bar in the kitchen, for example, is a spot where the designers like to gather to review drawings. Compact individual workstations, concentrated along one wall of the open, airy studio, offer easy communication with coworkers—and little in the way of privacy. "Our clients and staff probably hear conversations that they wouldn't normally hear in another architectural office," Burgess observes. "But we want people to be unafraid of being wrong. I'm a firm believer that you need to talk about nine bad ideas before you have a good one."

Workspaces say a lot about us. Join us on a tour of architecture offices and design studios around the state, and you'll see architects and designers in a whole new light.

STUDIO



U+B principals Mark Burgess, AIA (left), and Paul Udris, AIA, don't have far to go to review designs together.

"It's really about the cross-pollination of ideas," says Udris. "We encourage everyone to have a lot of work out for others to see and critique, because it can inform other designs. By opening up the process, we see and hear things around us that trigger great ideas."

And the vibrant sights and sounds of Nicollet Avenue? They've become the ninth member of the U+B team. Udris and Burgess chose Eat Street over the Warehouse District, an area heavily populated with other design firms, because they wanted exactly that sensory experience outside their door. Or did they really just want all those great lunch options? "The food is so much better," Udris admits, with a smile.

—Brandon Stengel, Assoc. AIA



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MICHAEL DESJARDINS PHOTOGRAPHY



LAMA CONCEPTS



SHANGHAI KANG
YU JIE SEN CAST
GLASS COMPANY

NURAN ZORLU
PHOTOGRAPHY



Materials shown:
1 - Convex Glass; 2 - Furore;
3 - Cast Glass Façade;
4 - Wovin Wall System; 5 - XURF Systems;
6 - GreenPix; 7 - Noodle Block Cube

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A MINNESOTA CONNECTION FUELS
INTEREST IN SUSTAINABLE, CUTTING-
EDGE BUILDING MATERIALS

Material Matters recently spoke with Blaine Brownell, who joined the University of Minnesota's School of Architecture faculty this fall. Brownell heads Transstudio and is the author of *Transmaterial: A Catalog of Materials That Redefine Our Physical Environment* (Princeton Architectural Press, 2005). On the associated blog, www.transmaterial.net, Brownell posts weekly profiles of building materials, with a particular emphasis on environmental issues. As *Sweet's Catalog* made sense of the profusion of new materials at the turn of the 20th century, so Brownell's catalog and website document the rapidly expanding spectrum of new materials available to designers in the 21st century.

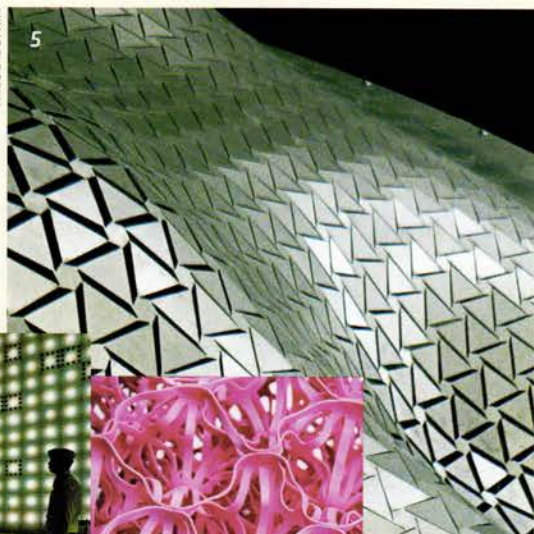
But unlike *Sweet's*, which gathered and made uniform for publication the thousands of trade catalogs that overwhelmed the mailboxes of architects in the early 1900s, *Transmaterial* is more investigatory and interpretive. Brownell is an architectural advocate who actively seeks examples of innovative product development and applications, which he documents by material type as well as material quality. Categories such as "recombinant," "intelligent," and "transformational" suggest a complex web of material innovation that captures issues beyond performance and aesthetics.

"We are experiencing an unprecedented period in architectural development with regard to our awareness of materials and resources," Brownell observes. "But equally important is our awareness of the interconnectedness of those materials and resources with social and ethical considerations." In other words, architects are concerned not just with how materials look or perform; they also want to know where the materials come from, how they were produced, and the impact they have on the environment. At the same time, an increase in knowledge transfer between industries has allowed innovations in other fields to rapidly expand into architecture. In the construction industry alone, says Brownell, "there has been a surge of acceptance of new techniques"—a phenomenon he says has been driven by the widespread implementation of LEED standards.

Of course, interest in material innovation is not limited to architects and builders. Brownell cites the popularity of design magazines as an example of the growing awareness among the public of materials and their impact on the environment. But for Brownell, the impact of material innovation can be, should be, much broader and longer lasting than a popular movement. He argues that to achieve true innovation in design and materials, "we must consider much more deeply how we construct architecture at every stage." A second catalog, *Transmaterial 2*, was published earlier this year.

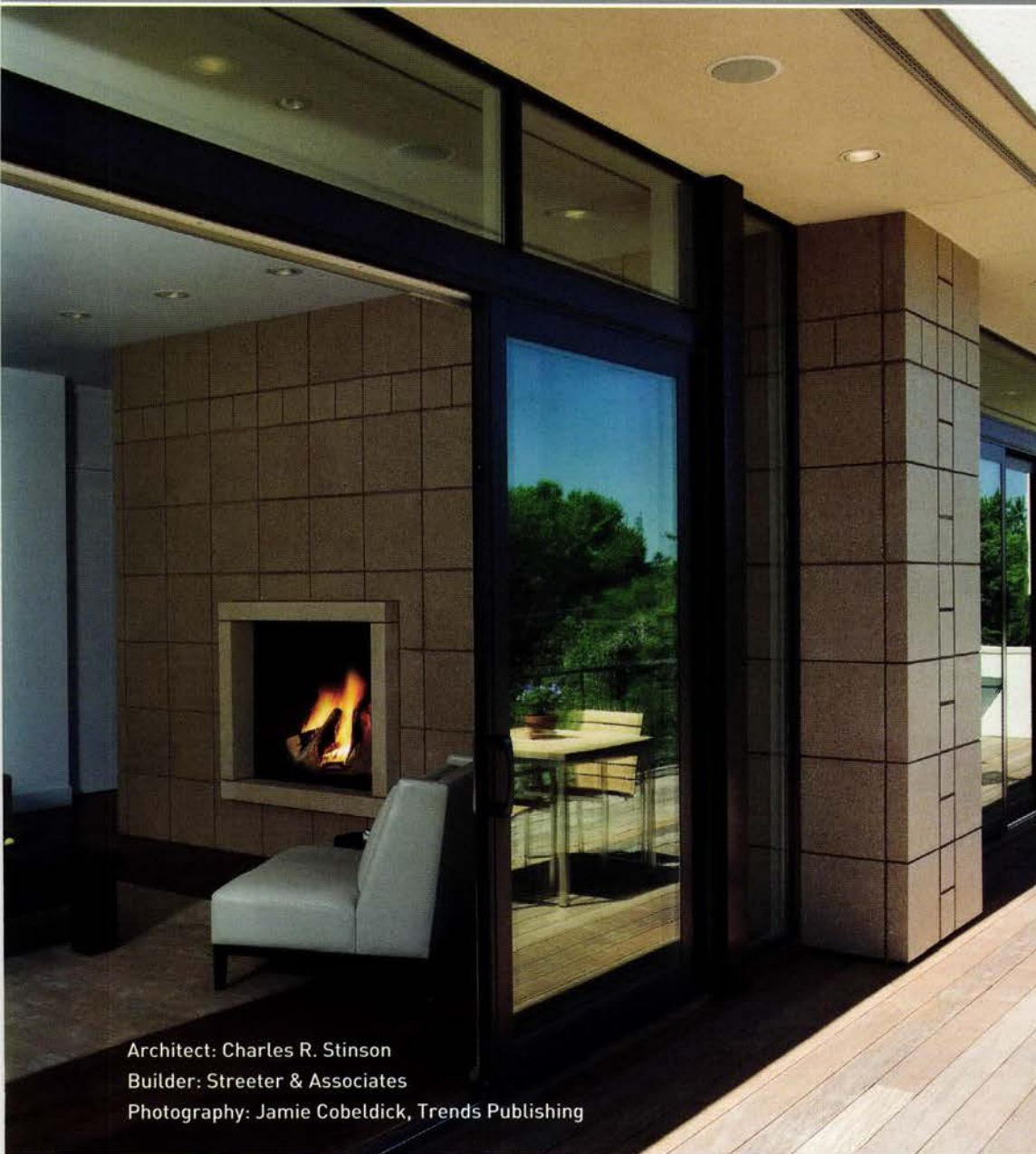
—Nancy A. Miller

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Architect: Charles R. Stinson
 Builder: Streeter & Associates
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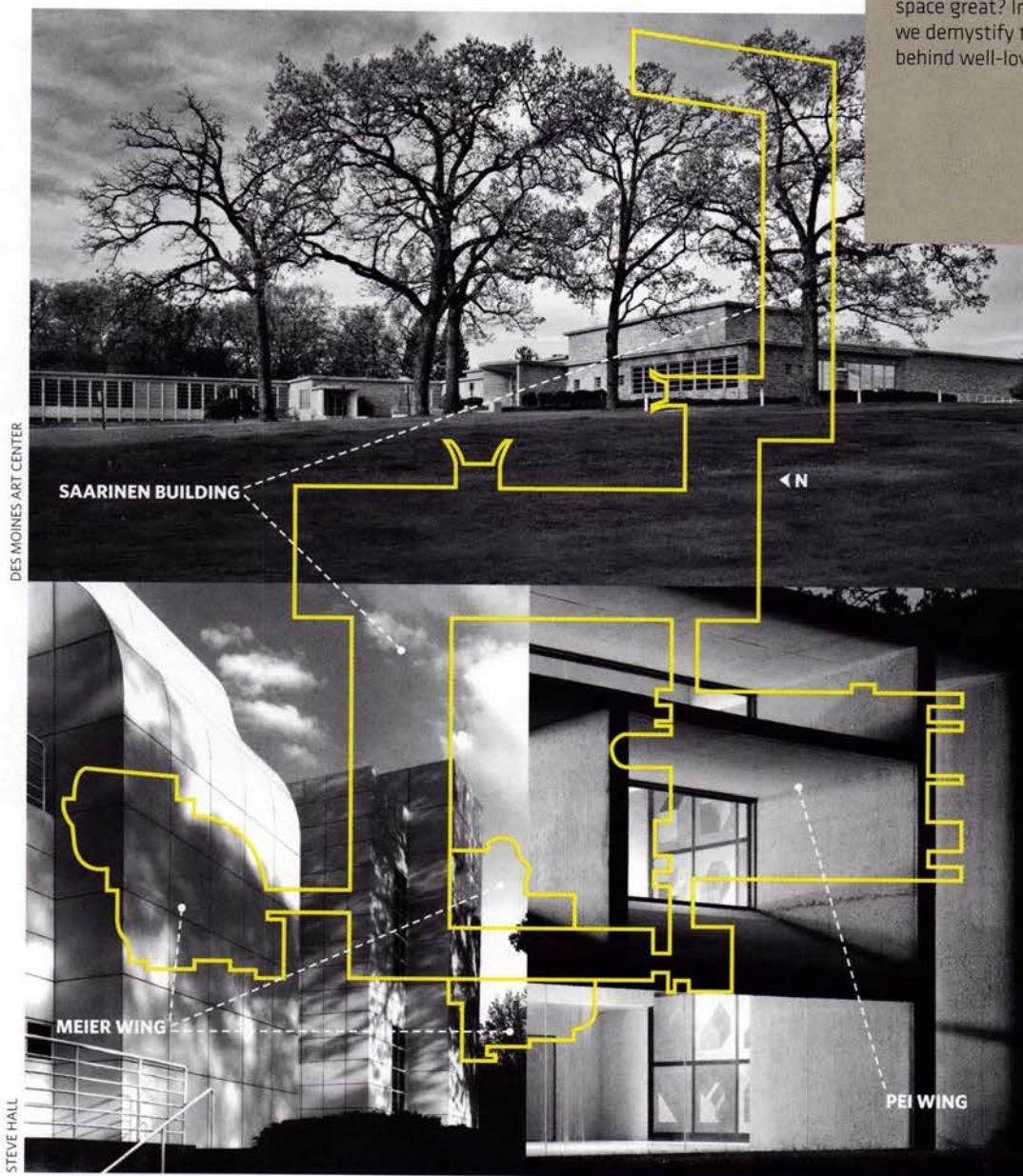
DIVERSITY OF EXPERIENCE

The Saarinen building feels like a traditional museum gallery; the Pei building is more like an outdoor plaza; and Meier's maze-like series of smaller rooms allows artworks to "speak to each other," says Fleming. **This spatial diversity is successful because of the respectful way the buildings work together.** Saarinen's is clad in Lannon stone; Pei used Lannon as the aggregate in his concrete. The three distinct Meier additions bookend but never break through the Saarinen building.

Ever wonder what makes a great space great? In *Why It Works*, we demystify the design ideas behind well-loved locations.

WHY IT WORKS

A podcast of *Why It Works* is available at aia-mn.org/am_magazine/am_magazine.cfm



DESIGN FITS THE USE

"Each of the three buildings," says Fleming, "has a unique way of presenting work of a particular time." He describes how Saarinen's square galleries were designed for the framed paintings of the early 20th century, while Pei's tall, light-filled hall is a great space for later, larger sculpture. Meier's building addresses the increasing variety in art movements with a variety of spaces: a bright atrium, small, boxy galleries, and a cavernous basement.

The architecture allows you to see each artwork in a space seemingly designed for it.

CHANGING PERSPECTIVES

Throughout the museum there are views outward, but each building does this in a very different way. Saarinen provides few, carefully placed floor-to-ceiling windows. Pei seems to have designed the necessary structural elements and filled in the rest with glass, creating unexpected vistas of sky and trees. Meier partitions the landscape into vignettes by punching small square windows into galleries and hallways.

This variety of views makes for a stimulating stroll through the complex. Meier is superimposed on Saarinen. Hard concrete shares the view with thin-lift stone.

DES MOINES ART CENTER

The goal of the Des Moines Art Center, says director Jeff Fleming, is to showcase a variety of modern and contemporary artists by acquiring just a single work from each. It's only fitting, then, that the museum itself is an eclectic survey of styles. Eliel Saarinen designed the original, low-slung stone-and-wood structure, completed in 1948. Twenty years later, the growing art center constructed a soaring concrete addition by I.M. Pei, and in 1985 Richard Meier added a trio of white jewel boxes. But instead of being a confusing jumble, the complex is a rich medley of modern and contemporary architecture. How does it all hang together? And why is this such a great place to see art? —Adam Regn Arvidson



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2008 Merit Award Winners

The AIA Minneapolis Merit Awards recognize and celebrate projects that tell a story of distinction. A panel of five jurors from varied professions reviewed and visited projects submitted by AIA Minneapolis members, selecting award recipients based on the following criteria: client/team satisfaction, technical innovation, environmental responsibility, budget/business success, positive community impact, and design excellence. This year to commemorate and honor Michael Schrock and his contributions to the architectural community the Michael Schrock, AIA, Honor Award was created and given to the project that most embodies the spirit of the Merit Awards.



Ripley Gardens
Michael Schrock, AIA, Honor Award

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Aeon



PPL Service Center

DJR Architecture, Inc.
Project for Pride in Living



Westin Minneapolis

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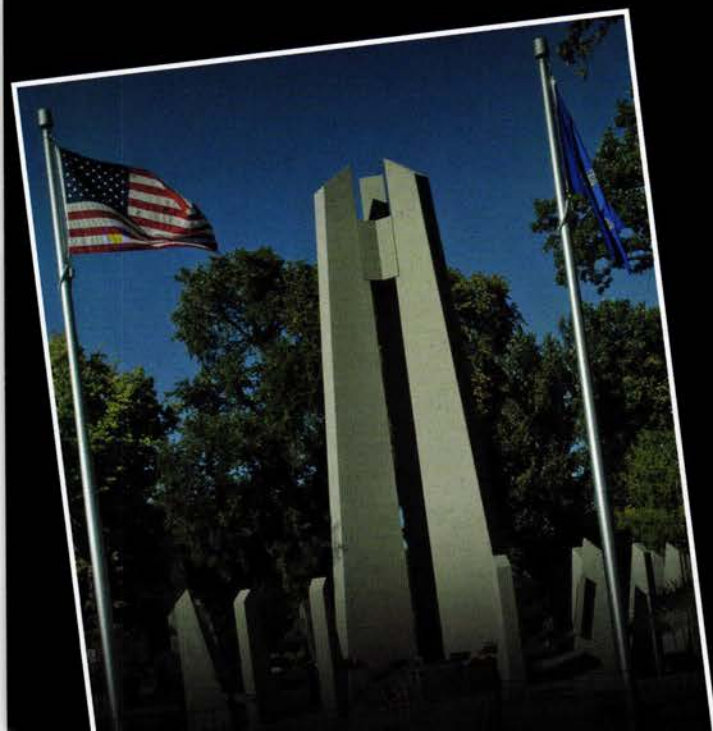
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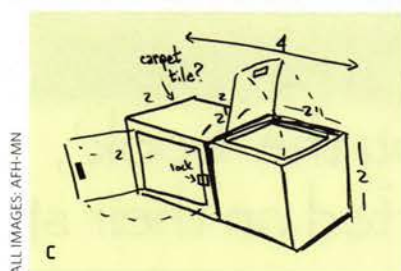


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The volunteer work of the Minnesota chapter of **Architecture for Humanity** benefits people and organizations in need of design assistance

Blueprints for a Better World

By Heather Beal

(A) Lao America Community Center, Minneapolis
AFH-MN charrette focused on improvements to the building and site. Lao America uses this rendering and others for fundraising.

(B) Shimek Learning Center, Hikkaduwa, Sri Lanka
Several design concepts by AFH-MN were incorporated into this community center, which includes a library, computer center, and preschool.

(C) Twin Cities Homeless Locker Project
The group's first design-build project will serve homeless individuals in need of secure storage for their personal belongings.

(D) Livingstone School, Kagera, Tanzania
A two-day charrette generated a master plan and conceptual building plans for an elementary school site in rural Africa.

(E) Hindu Temple Garden of Remembrance, Maple Grove
AFH-MN produced this concept plan for a memorial garden for deity statues destroyed by vandals in 2006.

There has been no shortage of natural disasters since Cameron Sinclair launched Architecture for Humanity (www.architectureforhumanity.org) in 1999. Inspired by Sinclair's vision of "promoting architectural and design solutions to global, social, and humanitarian crises," a handful of Minnesota architects and allied professionals formed the Minnesota chapter of Architecture for Humanity (AFH-MN; www.afh-mn.org) in early 2005 and began volunteering their time and talents to assist organizations abroad. That summer, the group held a charrette in Minneapolis that sparked the design of a new learning center for a coastal community in Sri Lanka that had been decimated by the 2004 tsunami.

While AFH-MN continues to provide conceptual design services for communities in places as far away as Tanzania and Uganda, its members have begun applying their design expertise to challenges closer to home. For example, the team answered the call for help when the Hindu Temple of Minnesota in Maple Grove was badly vandalized during construction in spring 2006 and nine deity statues were smashed to pieces. Temple leaders decided to create a memorial garden where people could pay homage to each deity. After touring the temple site and learning more about the vision for the garden, AFH-MN organized a charrette to explore design alternatives and prepare drawings needed for fundraising activities.

"There was such a wide range of opinion among temple members that temple leaders limited the number of people who participated in the charrette," says Jeffrey Swainhart, Allied AIA, owner of Swainhart Construction Services. "If we received conflicting information, we relied on the priest's assessment to make a final decision."

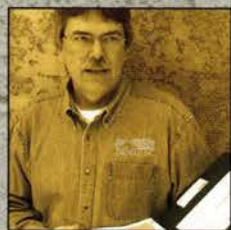
"Hindu tradition required that the dismembered statues be submerged in water," explains Cassie Neu, a landscape architect with LHB. Local and state code officials wouldn't allow this, so AFH-MN developed two schemes that still honor the deities by burying them. The first scheme features a central gathering place with nine burial mounds located along a pathway. The second scheme places the statues' burial locations in a mandala configuration around a central lawn. Both designs include gardens that will supply fresh flowers for temple ceremonies and vegetables for feasts and other celebrations.

Other AFH-MN ideas have catalyzed new forms of activism. "One of the initial goals for our chapter was to host speakers," says LHB architect Maureen Ness, AIA. "Two of our members, Troy Gallas and Colin Kloeker, built on this idea and started Solutions Twin Cities" (www.solutionstwincities.org).

>> continued on page 64



Because they do it by the 'book',
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The moment you step off the plane and breathe in the dusty, spicy smells, you are transported to a world of sensory surplus.

In Wayfarer, architects and other design enthusiasts share their experiences of architectural environments around the world.

WAYFARER

PASSAGE THROUGH INDIA

Over the past three years, I've traveled to India several times for business, on each occasion spending hours riding through the countryside on my way to various destinations. Every excursion, whether in the cities—Bangalore, Delhi, Agra—or on the superhighway that links them, is full of wonders. Was that elephant carrying a tree? Was that a camel at the tollbooth? A McDonald's on the road to the Taj Mahal? Does anyone ever follow the lines on the road?

The moment you step off the plane and breathe in the dusty, spicy smells, you are transported to a world of sensory surplus. The streets are full of horn-blowing cars, motorcycles, scooters, and bicycles splashing in and out of the roiling current of traffic. Add to that the masses of people, the brightly colored saris, and the overpowering collage of advertisements and posters, and you have the frenetic energy that is India.

Outside of the cities, you find serenity, perhaps none more profound than when you approach the Taj Mahal, about a five-hour drive from Delhi. Built in the 17th century by the Mogul emperor Shah Jahan in memory of his favorite wife, the magnificent white-marble mausoleum sparkles in the daylight. But according to Gupta, our tour guide that day, we have not truly lived until we've come back to experience the Taj at dusk.

—Mary Shaffer, AIA

PICTURE SHOW

Hungry for more? Then be sure to visit the Minneapolis Institute of Arts (www.artsmia.org) this fall for the first major U.S. exhibition devoted to photography and video art by Indian artists. The show—INDIA: Public Places, Private Spaces—opens October 26 and runs through January 18.

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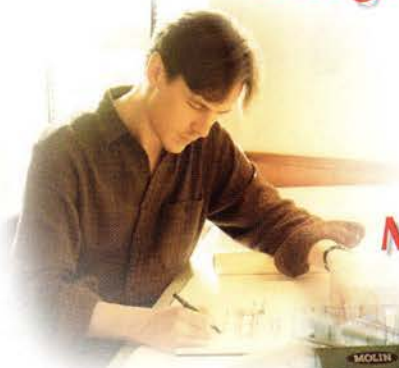
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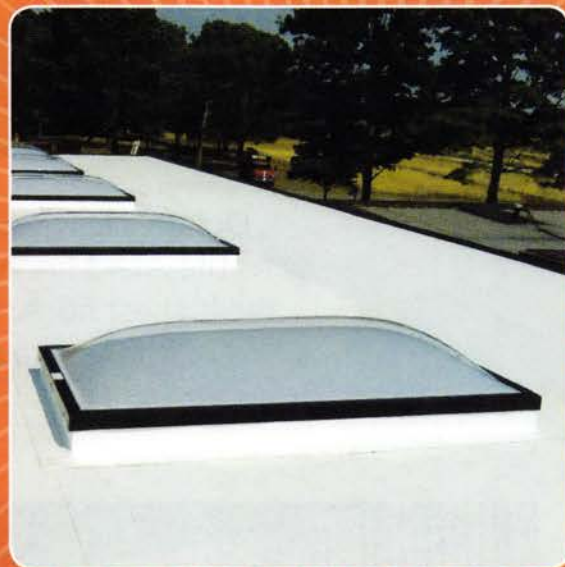
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Duluth's David Salmela, FAIA,
wins the AIA Minnesota Gold Medal,
the highest honor bestowed on a
Minnesota architect

In this Olympic year, many people pursued a gold medal, but not architect David Salmela, FAIA, recipient of AIA Minnesota's 2008 Gold Medal. "I was shocked when I heard the news," he says. "It was not something I expected or ever had as a goal," he adds, in his characteristic modesty. "My mother used to say, 'Never think that you are better than someone else or eventually they'll be better than you.'" So winning the Gold Medal won't go to Salmela's head, but neither will it slow him down. "I think of the Gold Medal as going to architects at the end of their careers, although I know that isn't always the case. I feel I'm just starting to learn things."

Learning things is something Salmela pursues with great passion. His library of architecture books and magazines from around the world and his knowledge of the international architecture



scene reflect his insatiable curiosity, born out of his being largely self-taught. "I haven't done things the way that most architects have," he admits. "I didn't go to architecture school, I didn't have a mentor, I didn't work for big firms, and I didn't live where most architects live." Instead, he worked in a couple of firms in northern Minnesota, became licensed before that required having an architectural degree, and has run an award-winning practice in Duluth for many years.

"It's a great honor to have your peers recognize what you do," says Salmela, "whether it's for an individual project or a body of work, as is the case with the Gold Medal." And he has certainly had his share of peer recognition, having won 18 AIA Minnesota Honor Awards and 22 national awards for his design work. He has also had 25 of his projects appear

in books and magazines the world over and a monograph of his work published by the University of Minnesota Press, with a second one in progress. There are very few firms the size of his, with just a few people, that have won that number of awards and had that amount of coverage.

But for all the gratitude Salmela feels for the recognition from his peers, what most excites him is the impact design can have on people's lives. "I had one client—two very successful professionals—say to me that the design and construction of their house was 'the most important thing we've ever done.' It wasn't anything I did, in particular. The very process transforms people." Contrary to the view that architecture is only for the rich and powerful, Salmela has made that process available to many different people, in projects as small as

stand-alone saunas. "Architecture can be created in any place, and anyone can be involved. What matters is having the right attitude: that we can make everyday life more memorable and more enjoyable through good design."

Salmela came to those insights gradually. "When I was younger," he says, "I wanted to do work that was up-to-date, but it wasn't well liked on the Iron Range, so I stepped back and asked myself what I should be doing. I realized that I needed to understand the immediate culture I was working in, while still trying to be progressive." That led Salmela on a path that has been successful for him: designing buildings that often look familiar, even nostalgic, at first glance, but that are really very modern and quite daring in their space and detail, frequently for very pragmatic reasons. "When I looked at ways to reduce costs and adjusted to the loss of craft skills among builders," he explains, "I realized that I could build modern houses with flat roofs better and cheaper than traditional houses," adding, with a laugh, "Those modern architects in the 1930s were really on to something!"

And yet, unlike the early modernists, Salmela has managed to make modernism not only acceptable but also desirable for a wide range of his mostly residential clients. "The work draws people," he says. "Almost all of my clients are people I had never met before." The nostalgic aura of his buildings plays a part in that. "As human beings, we can't avoid nostalgia," he says. "I'm nostalgic about early modern architecture." But in the end, what makes Salmela's practice and his career so deserving of a Gold Medal is his aspiration to do great work, however modest the budget or small the building. "Great architecture makes you want to return to it, again and again, unable to explain what makes it so compelling, and yet amazed by the allusiveness and mystery of it." He finds those qualities in the work of Le Corbusier and Alvar Aalto, and we can find them amply evident in the work of David Salmela. **AMN**

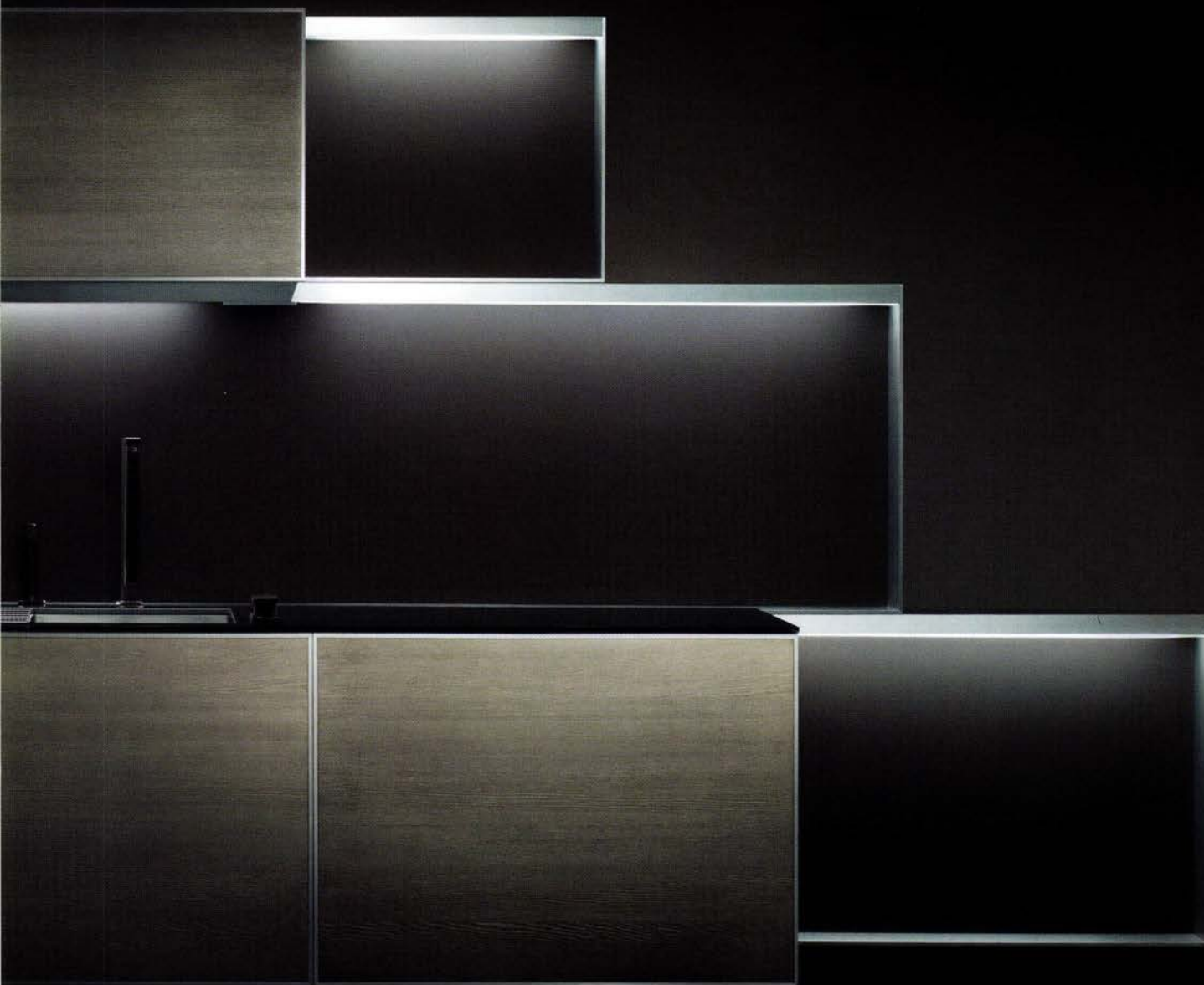


Rarefied Air

BY THOMAS FISHER, ASSOC. AIA

David Salmela stands on the wall just outside his office, which occupies the lower level of the house he designed for his family. His is one of four elegant, black-clad houses he designed or renovated on the dramatic hilltop site overlooking downtown Duluth and its harbor.

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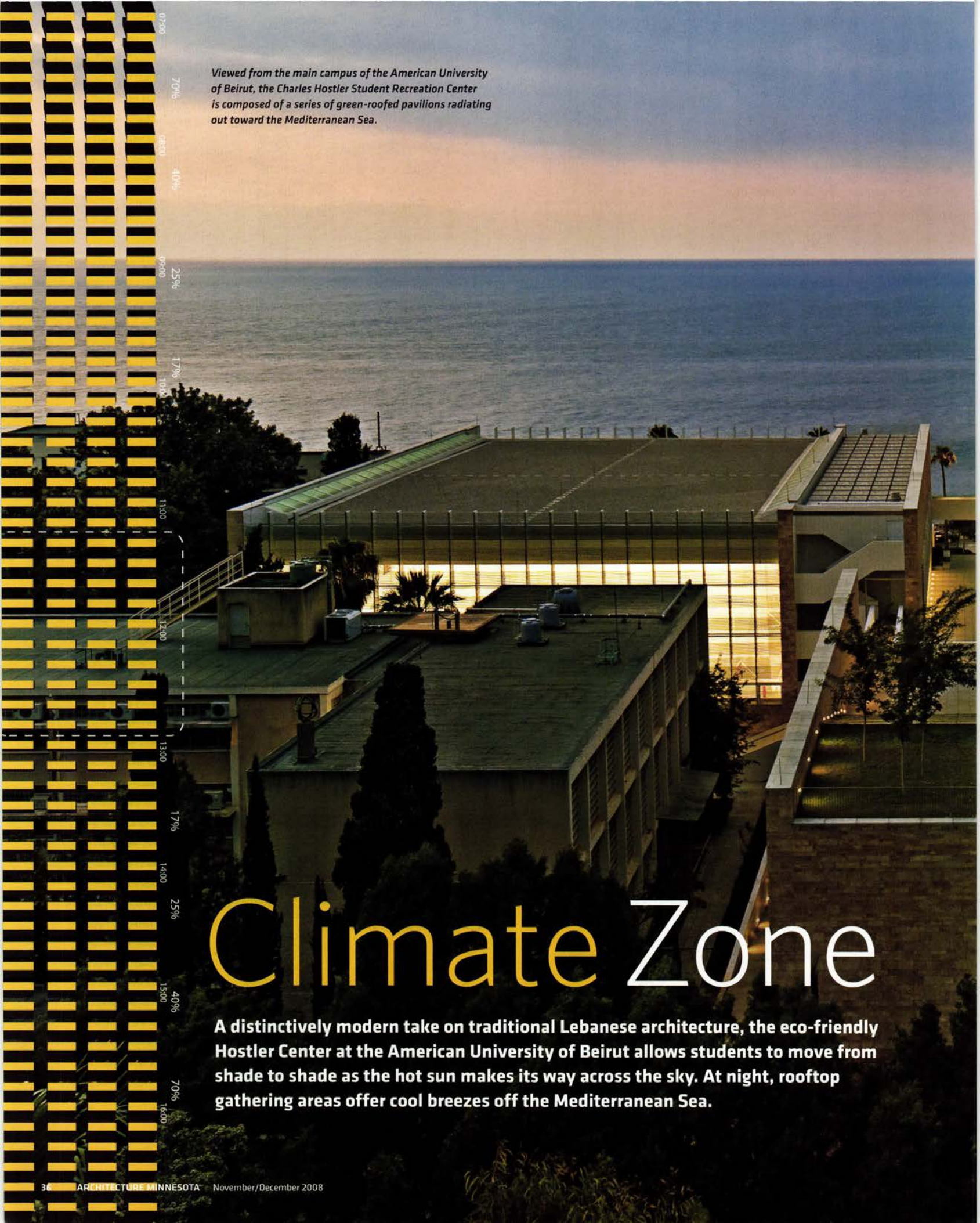
SPHERE OF INFLUENCE

Minnesota architects are shaping cities and places around the globe.

Truth be told, the name of this magazine is a bit misleading. People who first glimpse *Architecture Minnesota* while scanning the regional-interest magazines at their local bookstore no doubt infer from the title that we focus exclusively on buildings and structures in Minnesota. But that initial impression quickly evaporates when the magazine is plucked from the shelf and skimmed. This year alone, four of our six covers have showcased outlying architecture in places as near as Wisconsin and as distant as the Middle East.

So what *is* our focus? The work of Minnesota architects, of course. And in the wake of all the attention paid to the recent “starchitecture” in Minneapolis, this broader scope affords us the chance to show how our local design talent is shaping and invigorating cities around the world in the same way that Jean Nouvel (Guthrie Theater) and Herzog & de Meuron (Walker Art Center expansion) have helped energize ours. Which was exactly our aim in assembling the four project features on the following pages.

Take a close look at the groundbreaking sustainable design on display in VJAA’s Charles Hostler Student Recreation Center (page 36) at the American University of Beirut and Perkins+Will’s Embassy Medical Center (50) in Colombo, Sri Lanka. Consider how deftly Ellerbe Becket’s Samsung Cancer Center (46) in Seoul, South Korea, and Cuningham Group’s Epic Systems headquarters (42) in southern Wisconsin blend show-stopping architecture with a thoughtful embrace of regional/company culture. Minnesota architects have an extensive reach, and they’re making a world of difference. —CHRISTOPHER HUDSON



Viewed from the main campus of the American University of Beirut, the Charles Hostler Student Recreation Center is composed of a series of green-roofed pavilions radiating out toward the Mediterranean Sea.

Climate Zone

A distinctively modern take on traditional Lebanese architecture, the eco-friendly Hostler Center at the American University of Beirut allows students to move from shade to shade as the hot sun makes its way across the sky. At night, rooftop gathering areas offer cool breezes off the Mediterranean Sea.



The battle between Islam and the West has become so polarized that we often miss the fact that both sides face a similar struggle. The American political scientist Robert D. Lee defines it as a "struggle against the fatalism of the traditional world and against the passivity of a world swept toward modernity." Instead of seeing that dilemma as something that all cultures share, we have tended to caricature each other, with many in the West seeing Islamic states as backward and tradition bound, and many in the Muslim world viewing the West as mindlessly modern and materialistic. But leave it to a truly great work of architecture—the Charles Hostler

Student Recreation Center at the American University of Beirut, designed by the Minneapolis architecture firm VJAA—to help us get past our cartoons of each other to see our common task in retaining what is still meaningful in our traditions while imagining a more culturally and climatically responsive modern world.

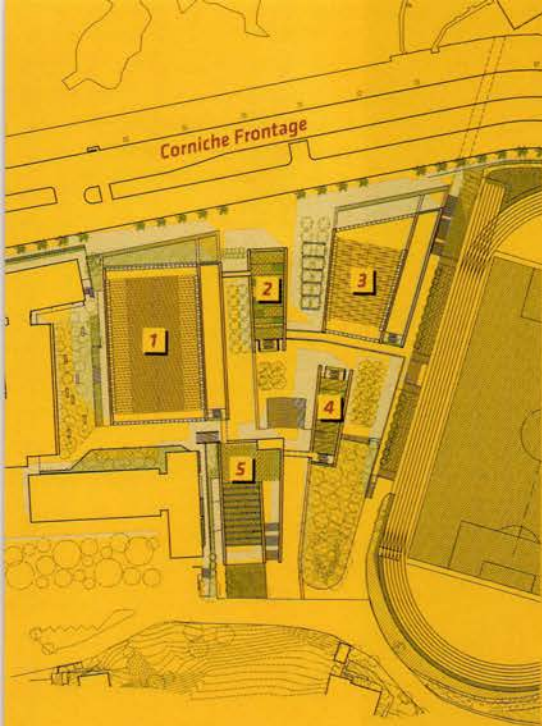
VJAA understood that idea right from the beginning in their competition-winning design for the recreation center. Rather than delivering the modernist massing called for in the university's master plan with a single, large building facing an expansive plaza, VJAA studied the way in which





A pedestrian boulevard—the Corniche—connects the Hostler Center to other recreational opportunities along the seashore. Students can walk from the Corniche across terraces and up a series of outdoor stairs into campus.

This page and opposite: Thick sandstone-clad walls insulate the buildings from the sun, while aluminum louvers shade the glazing, and water walls keep pedestrian areas cool.



The Hostler Center is composed of five buildings linked by bridges that provide covered outdoor space below and access to the rooftop decks.

- 1 Gymnasium 4 Café
- 2 Squash Court 5 Auditorium
- 3 Pool

people in hot, humid climates like Beirut traditionally use outdoor space over the course of a day, moving with the shade from one side of the street to the other and migrating from the lower, cooler levels of a building during the day to the breezy rooftops in the evening and at night. That analysis led VJAA to break the 100,000-square-foot program for the recreation center into a series of five buildings oriented north-south to maximize the shading of the narrow open spaces and to capture the cool air from the tree-shaded campus during the day and the breeze from the adjacent Mediterranean Sea at night. "A local architect said that what we did was very

Lebanese," says VJAA principal Jennifer Yoos, AIA. Adds fellow principal Vincent James, FAIA: "He said that we had done a Lebanese building that most Lebanese architects would not have done, because they tend to look to Europe for inspiration."

The sensitivity to tradition in this modern building applies not only to its climate response but also to its weaving together of the social and urban context. Occupying a former parking lot between a science laboratory and the university's soccer field and running track, the recreation center contains functions we would expect in such

"A local architect said that what we did was very Lebanese," says VJAA principal Jennifer Yoos, AIA. Adds fellow principal Vincent James, FAIA: "He said that we had done a Lebanese building that most Lebanese architects would not have done, because they tend to look to Europe for inspiration."



**CHARLES HOSTLER STUDENT
RECREATION CENTER**

Location:
Beirut, Lebanon

Client:
American University of Beirut

Architect:
VJAA
www.vjaa.com

Principals:
Vincent James, FAIA;
Jennifer Yoos, AIA;
Nathan Knutson, AIA

Project architect:
Paul Yaggie, AIA

Project coordinator:
Jay Lane

Energy and comfort concept:
Transsolar Energietechnik GmbH

Landscape architect:
Hargreaves Associates
www.hargreaves.com

General contractor:
Karagulla Engineering
and Contracting

Size:
204,000-square-foot building,
496,000-square-foot site

Cost:
\$17 million (translated
to \$30 million in the U.S.
construction market)

Completion date:
May 2008

Photographer:
Paul Crosby

Left: Skylights and glass walls in the gymnasium interior provide ample daylight while keeping out direct sunlight.

Opposite, bottom: The outdoor spaces offer many places to gather in shade during the day. At night, students meet along the wide stairs and in the rooftop gardens and amphitheater.



NORTH-SOUTH SECTION SHOWING COOLING STRATEGIES

The building mass is broken down into a series of pavilions to enable natural cooling from sea breezes moving through the site.

Horizontal louvers and vertical fins shade the buildings from the hot summer sun.

Radiant cooling cast into the concrete rooftop deck tempers the interior of the gymnasium and other activity spaces.

In the sports pavilions, natural ventilation is facilitated through stack-effect skylight vents positioned along the interior above the east-west walls.

Rooftop gardens provide additional shading for the roof surfaces, and breakout spaces for evening use.

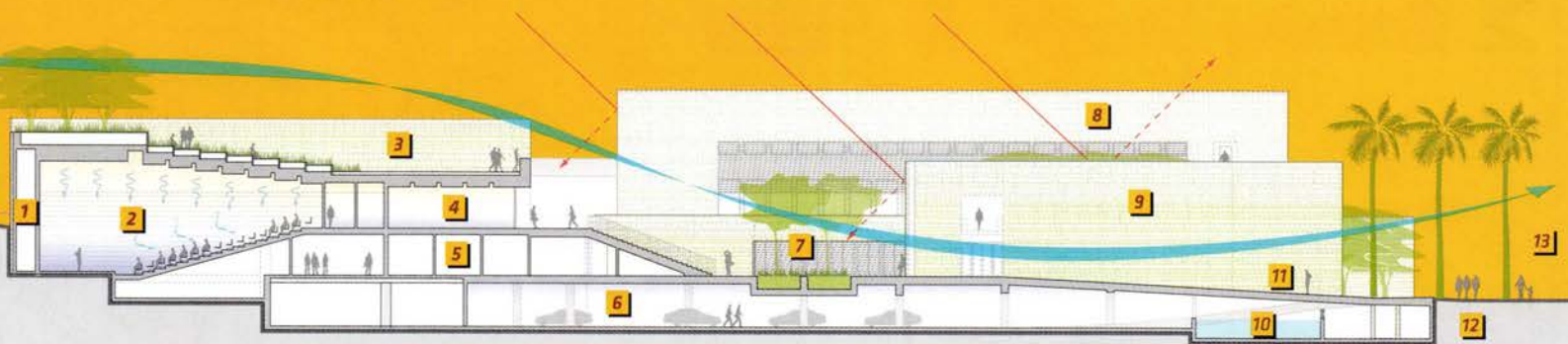
A new seawater geothermal plant provides heating and cooling to the lower campus.

a building (gymnasium, pool, squash courts, and fitness area) as well as those we might not (café, gallery, auditorium, and amphitheater). "The breakthrough for us," says Yoos, "came when we saw it not as a building but as part of a continuous urban/social/climatic fabric." The center's traditionally scaled outdoor spaces connect different levels of the campus, from Beirut's Corniche—the pedestrian promenade along the sea—on the lower level of the site to the rest of the university on the uphill side. Meanwhile its rooftop gardens and gathering areas, accessible by stairs and elevators, allow students to cross from one building to the next

via several elevated bridges, creating a rich array of social spaces. And below it all lies a 200-car garage, a reminder of how much modern life remains a presence in even the most sensitive reinterpretation of traditional urbanism.

The Hostler Center also gives new form to some very old ways of building. Evoking the masonry-bearing wall construction of traditional Lebanese buildings, VJAA organized the center into a series of roughly parallel, sandstone-clad, concrete-framed "strong walls" that shade outdoor spaces and control temperature swings inside the buildings. "Syrian sandstone is a common,

>> continued on page 62



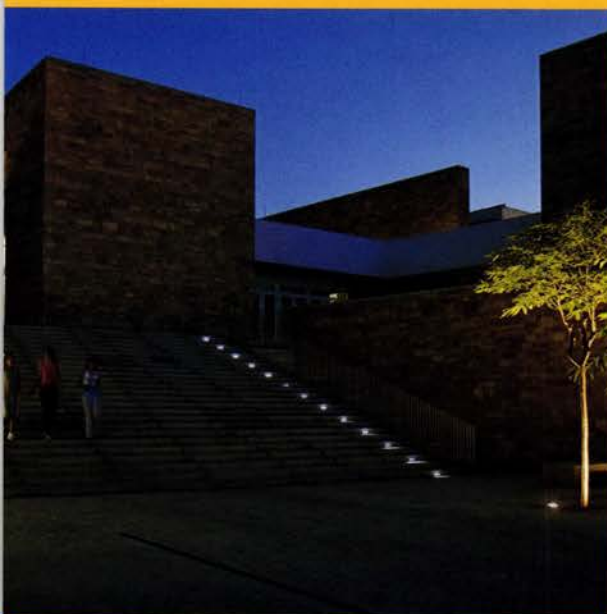
- 1 Backstage
- 2 Theater
- 3 Outdoor Auditorium
- 4 Lobby

- 5 Media Room
- 6 Parking
- 7 Courtyard
- 8 Gymnasium, south façade

- 9 Squash Court, south façade
- 10 Gray Water Reservoir
- 11 Corniche Entry

- 12 Foundation Channels for Temporary Air
- 13 Corniche

- Convective Currents
- Solar Rays
- Radiant Cooling





VERONA, WISCONSIN

MODERN Epic

BY LINDA MACK

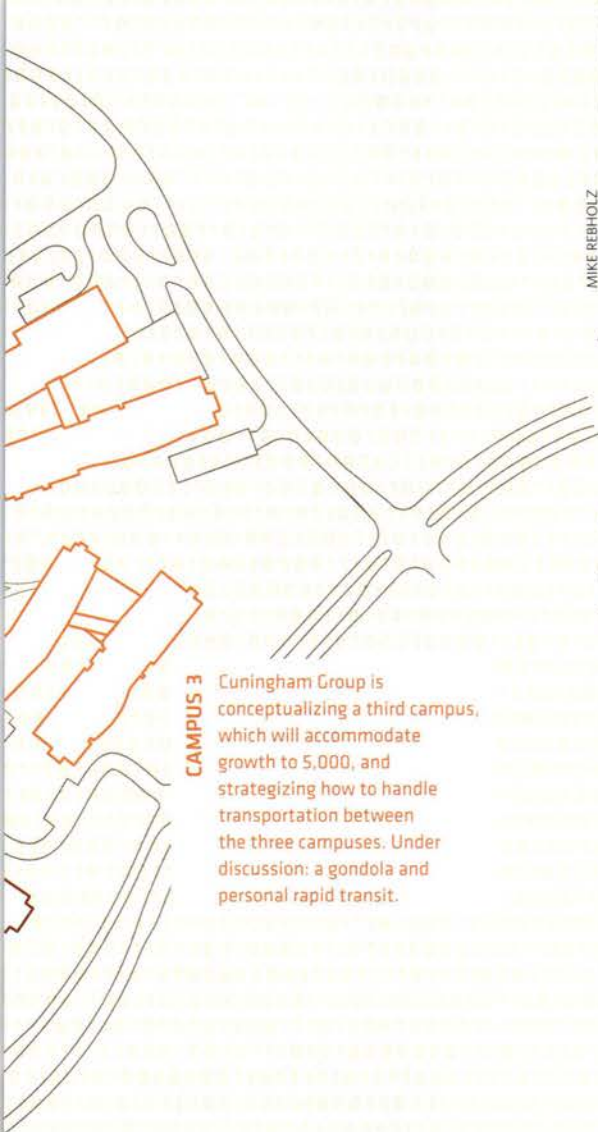
LEARNING CENTER

The campus' signature building is a curving, partly barn-red Learning Center (shown in the photo below) whose fan-shaped auditorium seats more than 5,000.

CAMPUS 1

The first campus (shown at the bottom of page 43), completed in 2006, includes five office buildings that house 300 employees each, and a dining hall.





CAMPUS 3 Cuningham Group is conceptualizing a third campus, which will accommodate growth to 5,000, and strategizing how to handle transportation between the three campuses. Under discussion: a gondola and personal rapid transit.

CAMPUS 2 A second, 1,600-employee campus, now under construction, and the first campus will be "more cousins than twins," says Cuningham Group's John Cuningham, FAIA.



MIKE REBHOLZ

The tree house sits in the woods across a swinging bridge. "No pagers allowed," says the hand-scrawled sign.



A world map and an airplane-wing-like light cover set the theme for the Hangar conference room. All of the conference rooms have outside space as well.

Software developer Epic Systems expands its 21st-century corporate campus in southern Wisconsin with an architectural-flagship Learning Center

It's a pleasant afternoon, and two software developers are working at their laptops on a rustic table inside the tree house at the Epic Systems Corporation headquarters in Verona, Wisconsin, near Madison. On the porch outside, another young man and woman swing in two red hanging chairs. Epic develops software for giant healthcare networks such as Allina and Kaiser Permanente and has grown from 600 to 3,500 employees since 2001. "I love working here because of the environment and the culture of the people. They're young, smart, and articulate," the young man says. "Plus, they put these chairs out here so people can work."

"They" would be Cuningham Group, which, with collaborating architect Zimmer Gunsul Frasca, designed Epic's first campus of six buildings, completed in 2006. Since then Cuningham Group has designed a stunning 700,000-square-foot Learning Center, has been shaping a second campus (now under construction) for 1,600 next

door, and is planning a third campus on the same rolling farmland. Firm founder John Cuningham, FAIA, is the one who suggested the Peter Pan tree house, and project manager Tom Kylo, AIA, the hanging chairs. Epic CEO and founder Judy Faulkner "didn't want a campus that was corporate," Cuningham says. Adds Kylo: "What could be less corporate than a tree house?"

The tree house may be the most unorthodox part of Epic's campus, but it's far from the only one. The five three-story, hipped-roof office buildings, all composed of limestone, brick, and glass, group around a central green space laced with gardens, pools, and pathways. Cars—for all 1,500 employees—are parked underground. Interior hallways aren't long and dark, always focus on an outside view, and lead naturally from one building to another.





A central green space, walkways, and skyways connect the hipped-roof buildings of the first campus.

Each of the first-phase buildings is named for a celestial object (Andromeda, Borealis, and so on), can accommodate up to 300 employees, and contains an open stairway individually designed to reflect the building's theme, be it jungle or space. Eight conference rooms, used by clients and prospective clients, are also themed (Ganymede's high-ceilinged Hangar, for instance, features a wall-spanning world map and an airplane-like metal wing over the lights). Art-fair booty collected by Faulkner herself enlivens the hallways, conference rooms, and even the entrances to the 36 training rooms in the 700,000-square-foot Learning Center.

Equally notable is what you don't see: department or directional signs, repetitive furnishings, or endless parking lots. The aim is happy, energized employees. "We wanted to create an environment where people can be productive," Faulkner explains. "That's why we have individual offices and operable windows. And that's part of the reason for the art and the fun. If 80 percent of our expenses are staff and 10 percent are building-related, why not make it an environment we enjoy?"

SOCIAL ORGANIZATION

John Cunningham met Faulkner 13 years ago when Epic needed to add 200 employees to its 100-person office in Madison. Since 2001, when

>> continued on page 67

"Our software is fully integrated, from the pharmacy to the operating room," says Epic Systems CEO Judy Faulkner, "so everyone must talk together." Thus the easy access from one building to another, with tunnels and skyways backing up the outdoor walkways.

Cunningham conceived of the Learning Center as a year-round training center and a venue for the annual gathering of 4,000 Epic Systems customers.



The two-story Learning Center creates a dramatic edge to the hilltop campus. The limestone sections are break areas with individually designed fireplaces.



**EPIC SYSTEMS
CORPORATION**

Location:
Verona, Wisconsin

Client:
Epic Systems Corporation

Photographer:
George Heinrich

CAMPUS 1
Architect of record:
Cunningham Group
Architecture, P.A.
www.cunningham.com

Principal-in-charge:
John W. Cunningham, FAIA

Project designers:
John W. Cunningham, FAIA;
Jack Highwart, AIA

Associate architect:
Zimmer Gunsul Frasca
Partnership (principal:
Patrick Gordan, AIA;
project designers: Evett
Ruffcorn, Jose Sama)
www.zgff.com

Landscape architect:
JJR
www.jjr-us.com

General contractor:
J.H. Findorff & Son Inc.

Size:
1,082,733 square feet

Completion date:
October 2006

LEARNING CENTER
Architect:
Cunningham Group
Architecture, P.A.
Principal-in-charge:
John W. Cunningham, FAIA
Project lead designer:
Chad Clow, AIA

Energy modeling:
X-nth, Inc.

Landscape architect:
JJR

General contractor:
J.P. Cullen & Sons, Inc.

Size:
700,000 square feet

Completion date:
September 2007



SEOUL, SOUTH KOREA

SEOUL PROVIDER

A gleaming new cancer-care center in South Korea embraces technology, landscape, and the family-oriented culture of the people it serves

Samsung Cancer Center's height was limited by that of the surrounding hill preserve. Ellerbe Becket fit the 1.2-million-square-foot program into a glazed, curved, 12-story tower, eight additional levels below ground, and a four-story pedestal building.



By Nancy A. Miller

Nestled into the lush green hills of Seoul, South Korea, Samsung Cancer Center embodies the tradition and technology that define modern Korean society. The 1.2-million-square-foot, 650-bed hospital, designed by Ellerbe Becket, houses the largest, most advanced cancer-treatment facility in Asia while supporting a culture that highly values family and nature.

The design of the building, says Ellerbe Becket design principal Mic Johnson, AIA, was shaped by—and around—the site. “What’s interesting about Korean healthcare architecture, and Korean architecture in general,” he observes, “is how sensitive Koreans are to landscape and sustainability issues. There is a very dense population in Seoul, so land is at a premium. There are designated landscape preserves, and there are certain height limits. Both of these factors were in play with Samsung, because the site is next to a hill preserve, above which we could not build.”

Located on a healthcare campus with a 1,000-bed general-care hospital and research facility, the site also dictated a modest building footprint.

This, combined with the height restriction and the large program, resulted in the building going eight stories underground, with the first three levels below grade containing the classrooms of an associated medical school, a cafeteria, and food services, and the lowest five levels devoted to parking and mechanical services. Above ground, a 12-story patient-room tower sits astride a four-story podium that contains admissions, diagnostic functions, patient education, and other communal areas. But the site was not simply a determining factor in the accommodation of the facility’s program; it was also an opportunity to embrace Korean building and landscape traditions.

The design of the building, and its relationship with the site, says Johnson, “has to do with how Koreans support a sense of well-being, a sense of connection. They focus on place rather than object.” One of the design team’s primary goals, he continues, was to nest the building in a series of gardens. Thus the four-story podium is clad in traditional Korean granite and has a green roof; the curved 12-story patient tower, clad in glass and metal, literally reflects the surrounding



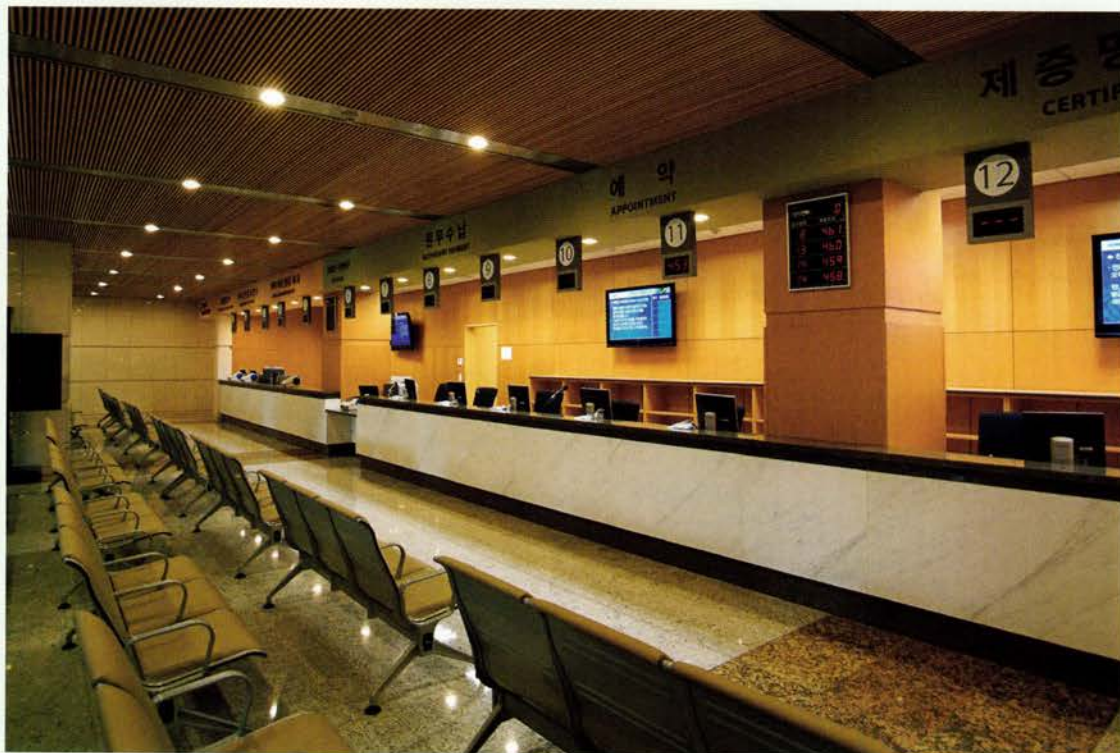
- A 12-story patient bed tower
- B 4-story administration and education building
- C 3-story sunken garden
- D Existing general hospital and research facility
- E Entrance to below-grade parking
- F Conservation area
- G Link

The crisp, precise materials and aesthetic support an advanced computerized system for patient admissions, care, and tracking. But technology is balanced with nature throughout. Glass curtain wall, for example, overlooks a sunken garden and waterfall.



"Connection to the landscape helps patients understand where they are on the campus, but it's also important in the sense that landscape and healing are tied together."

— Ellerbe Becket design principal
Mic Johnson, AIA



forms and vegetation. The result is a series of manmade and natural gardens and hills merged into a single unified landscape.

The effect continues inside the building, where waiting areas overlook and wrap around green spaces. A three-story sunken garden brings light into the spaces below grade, and throughout the facility light, views, and outdoor access enhance the patient experience. "Connection to the landscape helps patients understand where they are on the campus," says Johnson, "but it's also important in the sense that landscape and healing are tied together."

While Samsung Cancer Center is a paragon of modern healthcare facilities, the design and layout of the hospital were significantly influenced by local customs. For example, in Korea the accommodation of families and family life is an important part of patient care. Thus spaces for families—from waiting areas to patient-education facilities—figure more prominently in the design of Samsung than in that of typical hospitals in the West. Patient-care floors are organized into six-bed wards (another

difference from the Western model) along the north side of the tower and two-bed rooms along the south face, with a limited number of one-bed VIP rooms on the corners. The placement of physicians' offices in the middle of the wards facilitates the teaching functions of the medical school as well as patients' access to their doctors.

In Korea, patients typically line up in the corridors outside their doctor's office rather than sit in waiting rooms. This particular tradition was deemed ready for evolution. While maintaining the close proximity and access to doctors that Korean patients expect, the Ellerbe Becket designers helped their clients "reorganize the way they deliver services, so physicians can have their own space and there is an actual waiting room and an exam room," says Johnson. "In one of our previous Korean hospital projects, the waiting room was visible from the exam-room corridor. With Samsung, we replaced this physical connection with a technical one: Electronic sign boards in the waiting room let patients know when their turn is coming up."

>> continued on page 70

Six-bed wards line the north side of the tower, with a limited number of rooms designated for VIPs. Patient-care floors, patient-education areas, and other spaces are designed to support a family-centered approach to healthcare.



KYUNG LEE, AIA

In Korea, the accommodation of families and family life is an important part of patient care. Thus spaces for families—from waiting areas to patient-education facilities—figure more prominently in the design of Samsung than in that of typical hospitals in the West.

SAMSUNG CANCER CENTER

Location:

Seoul, South Korea

Client:

Samsung Medical Center

Architect:

Ellerbe Becket, Inc., in association with Samoo Architects and Engineers
www.ellerbebeck.com
www.samoo.com

Principals-in-charge:

Paul Zugates, AIA; Kyun Kim, AIA

Design principal:

Mike Johnson, AIA

Senior project designer:

Mike Kennedy, AIA

Landscape architect:

Samoo Architects and Engineers

Construction manager:

Samsung Construction

Size:

1.2 million square feet

Cost:

\$250 million

Completion date:

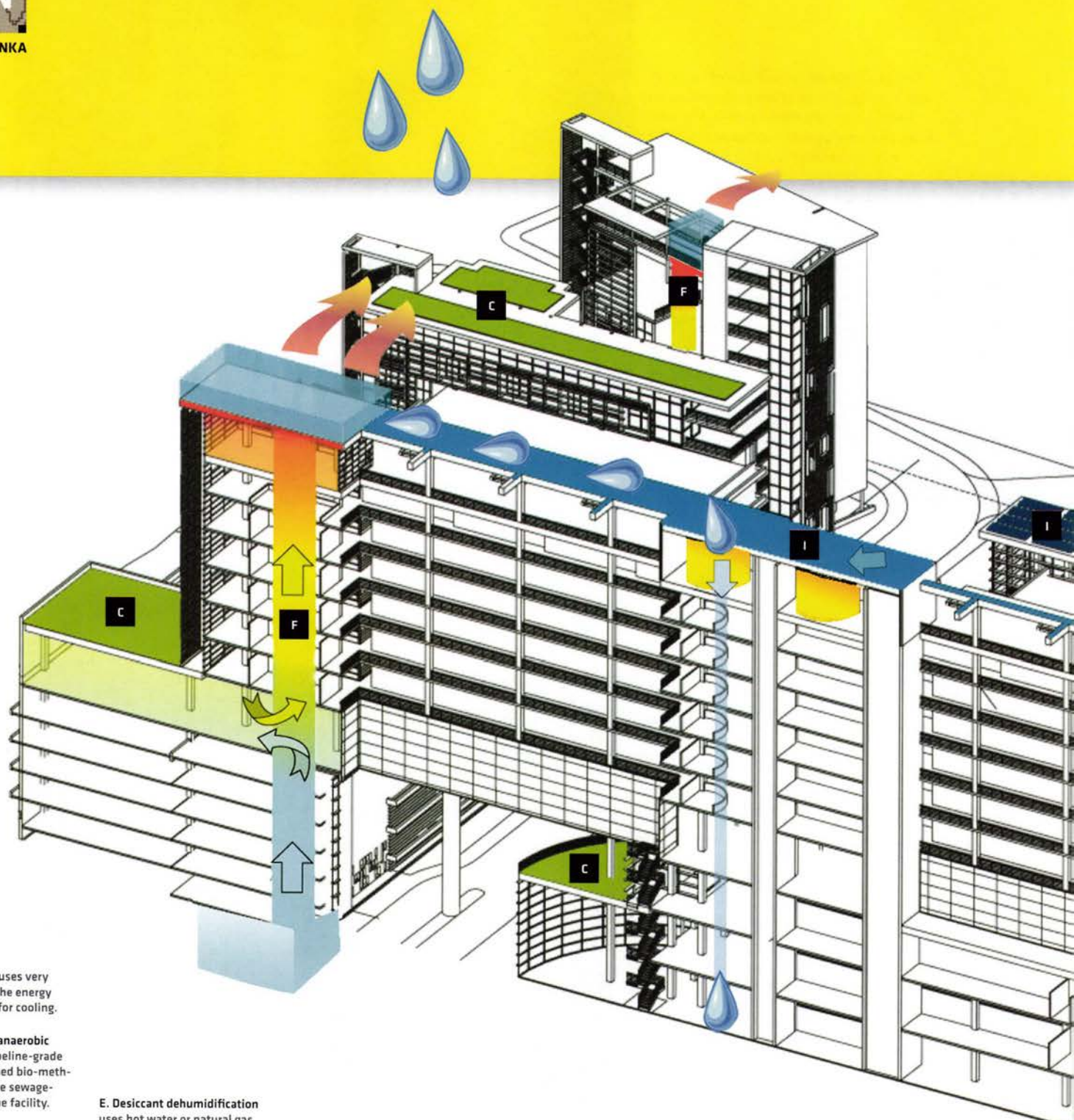
January 2008

Photographers:

Seung Hoon Yum; Samoo Architects (clinical spaces)



The neighboring nature preserve creates a calming entry sequence for visitors.



A. Absorption Chiller uses very hot water to provide the energy needed to chill water for cooling.

B. High-temperature anaerobic digester generates pipeline-grade natural gas (conditioned bio-methane). It also acts as the sewage-treatment plant for the facility.

C. Solar hot-water panels provide very hot water for the absorption chiller and domestic water use. Natural gas from digester can be used to boost water temperature if needed.

D. Co-generation plant generates electricity with steam heated by natural gas from the digester. Hot condensate is then sent to the absorption chiller.

E. Desiccant dehumidification uses hot water or natural gas as an energy source.

F. Thermal chimney pulls air through tubes to the mechanical system. Mechanical system can boost pull if needed.

G. Cisterns collect rainwater for use in toilets and as feedstock for domestic water filtration system. They can be used for overnight solar hot-water storage.

H. Domestic water filtration system is non-chemical.

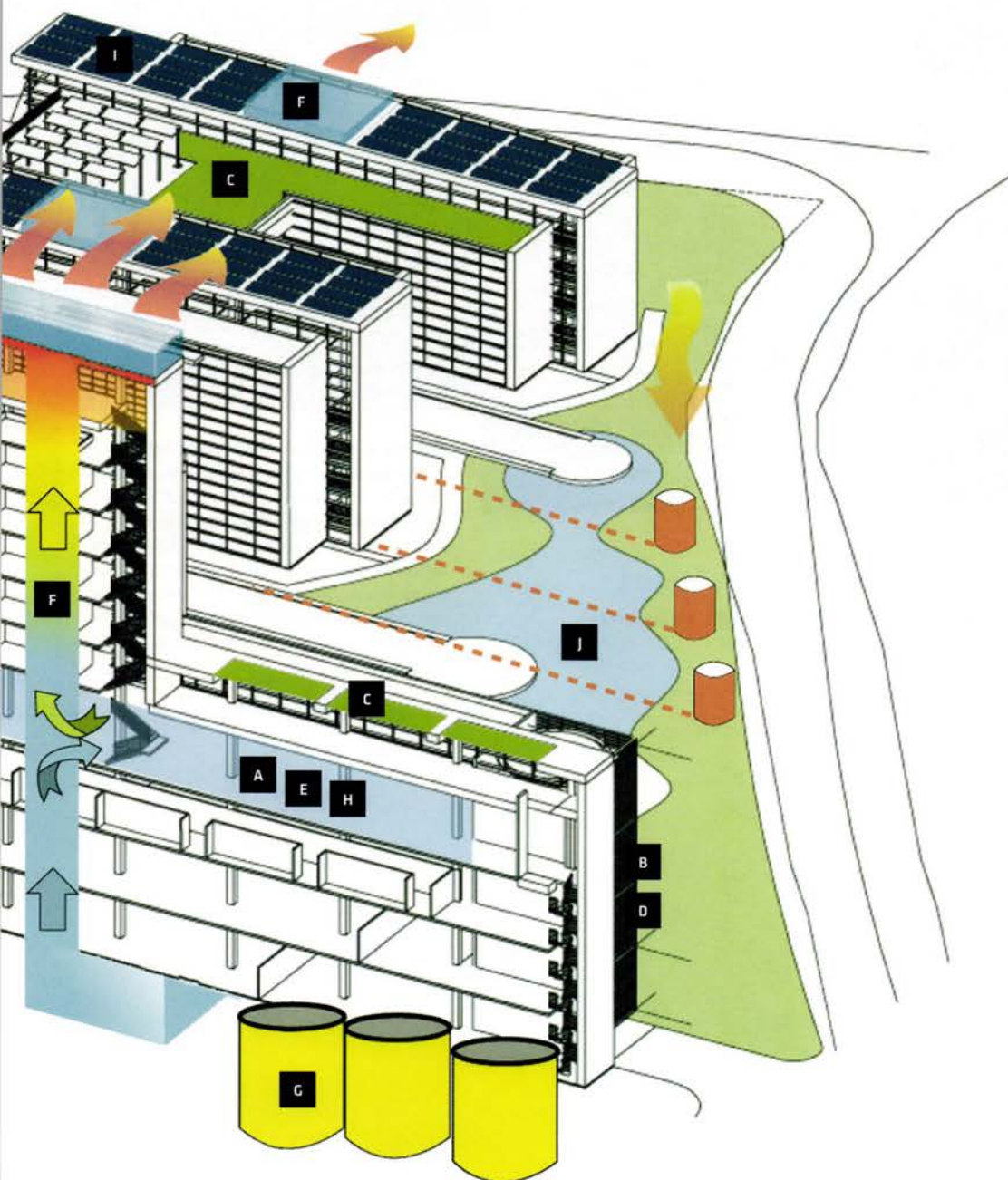
I. Living roof areas pre-filter rainwater heading to the cisterns.

J. Stormwater ponds for retention and filtration provide water for irrigation and as feedstock for domestic water filtration system if the cisterns run low during an extended dry period.

Next Top Model

Blending Western technologies and Sri Lankan culture, the self-sustaining Embassy Medical Center in Colombo will be many things at once:

By Camille LeFevre



a leading-edge international healthcare facility

a local economic engine based on green energy and human potential

a safe haven that would be last to go offline in the event of a catastrophe

and *the* model for sustainable medical centers around the world

Off India's tip, on the western coast of Sri Lanka, the bustling, multi-ethnic capital city of Colombo thrives as the island nation's port and commercial center. Poised on the Indian Ocean amid the tremendous biodiversity of lakes, canals, and the Kelani River, Sri Lanka's largest city boasts a population of nearly 650,000 people, including American and European expatriates.

Because of its large harbor and strategic position along East-West trade routes, Colombo (the name comes from the Sinhalese "*Kola-amba-thota*," meaning "harbor with leafy mango trees") has been known to traders for millennia. More recently, the tropical climate, natural amenities (sandy beaches, mountain waterfalls, jungles, and ecological sites), and cultural diversity (architecture influenced by Portuguese, Dutch, and British colonialism, as well as indigenous styles) have brought tourism to the area.

Still, a large portion of Colombo's population, like that of much of Sri Lanka, yearns to advance economically. The country has a gross domestic product of about \$32 billion—roughly \$1,600 of income per capita. About 15 percent of the island's population lives in poverty, a fact made devastatingly clear following the 2004 tsunami.



"Sustainability is the umbrella that covers everything about this project. And not just environmental sustainability. In this project, social, economic, and environmental sustainability are thoroughly interwoven."

-- Perkins+Will architect Doug Pierce, AIA

At Embassy Medical Center, Western healthcare technology and programming will combine with elements of Sri Lankan vernacular architecture that respond to tropical climate. Renderings indicate the building will be porous, eliminating the line between indoors and outdoors in many places, and will feature waterfalls, streams, and ponds. Balconies and overhangs will provide opportunities for outdoor access as well as shade below.

EMBASSY MEDICAL CENTER

Location:
Colombo, Sri Lanka

Client:
Tariq Rauf, Silvermere
Hospitals Group, Ltd.

Architect:
Perkins+Will
www.perkinswill.com

Principal-in-charge:
Chuck Knight, AIA

Project lead designer:
Dave Koenen, AIA

Landscape architect:
LHB
www.lhbcorp.com

Construction manager:
Leighton Construction

Size:
500,000 square feet

Cost:
Projected at \$170 per
square foot based on
the Sri Lankan rupee

Completion date:
2011

Renderings:
Perkins+Will

beyond LEED

"The Living Building Challenge is the next generation of rating system beyond LEED. We're not trying to achieve full Living Building status, but we're calling our initiatives 'LEED Platinum plus 2.'"

— Architect Doug Pierce, AIA

The design for Embassy accommodates basic programs that have the flexibility to expand into specialty areas. The facility's basic building blocks include an outpatient clinic, hospital, dormitory, hotel, parking ramp, and power plant. The architects designed the components to plug together within an infrastructure that will grow over time.

Fortunately, a little help is on the way: A new medical facility in Colombo, designed by Minneapolis architecture firm Perkins+Will and scheduled for completion in 2011, will change lives in the region in a multitude of ways through its groundbreaking attention to sustainability. "Sustainability is the umbrella that covers everything about this project," says Perkins+Will senior associate Doug Pierce, AIA. "And not just environmental sustainability. In this project, social, economic, and environmental sustainability are thoroughly interwoven."

Embassy Medical Center, which will include a 500,000-square-foot hospital and clinic, will not only serve as a world-class healthcare facility that offers state-of-the-art medical treatment for the local population; the facility will also be the most sustainable medical center in the world. Envisioned to exceed LEED and Green Guide for Health Care certifications, Pierce says, the self-sustaining facility will incorporate standards established by the Living Building Challenge, a program of the Cascadia Region Green Building Council (www.cascadiagbc.org).

"The Living Building Challenge is the next generation of rating system beyond LEED," Pierce explains. "We're not trying to achieve full Living Building status, but we're calling our initiatives 'LEED Platinum + 2'—the '2' being two key standards of the Living Building Challenge: capturing and processing 100 percent of all water needs on site, and generating 100 percent of the energy needed to operate the hospital with on-site renewable energy. The building is slated to use 30 to 50 percent less energy to operate and 40 to 60 percent less water than do similar-sized facilities."

Because of this self-sufficiency, Embassy Medical Center will be designated a safe haven for the local population in times of natural disaster, whether from earthquake, flooding, or tsunami. To further augment the facility's operational self-sufficiency in times of high water, generators and critical hospital functions will be located on upper floors at least 25 feet above ground. Finally, Embassy will contribute to economic growth in the region with new employment opportunities—many of them associated with the project's sustainability efforts.

"Embassy Medical Center will not only be a self-sustaining entity that serves the region in various ways, but also an advanced healthcare facility that will serve its community, its country, and people from around the world seeking premier healthcare," says Tariq Rauf, managing director of St. Paul-based Silvermere Hospitals





Part of Perkins+Will's work is to ensure that Sri Lankans learn and develop the skills necessary to sustain Embassy Medical Center once it's operational. Moreover, the Sri Lankan government realizes that Sri Lankans must become skilled in engineering, carpentry, concrete forming, electronics, and other fields in order to support the development of commercial, institutional, and corporate facilities to complement the medical center. This would also keep in Sri Lanka the dollars used to develop these types of facilities.

economic

social impact

"Part of the jobs aspect of this project is educating local people to keep the facility self-sustaining. We feel that if we have knowledge and expertise, we have a social responsibility to share it."

—Architect Doug Pierce, AIA



Group, which is providing financing for the project. "When Hurricane Katrina hit New Orleans, the hospitals weren't prepared. With climate change, the monsoons in Sri Lanka will only get more vigorous."

"This hospital will be a refuge in times of disaster," Rauf continues. "It will provide state-of-the-art medical care. It will contribute to the financial health of the community. It will also be an excellent example of how planners from two diverse cultures—that of the U.S. and that of Sri Lanka—can work together to plan, design, and develop a facility that will change lives. People have been very patient waiting for access to this kind of medical care in this location. People are very much looking forward to this facility."

Sustainable Safe Haven

"Designing a hospital to withstand crisis events and natural catastrophes fits into the broader sustainability model of self-reliance as a baseline," says Pierce. "Self-reliance doesn't mean isolationism. But a level of self-reliance, if there's a disaster, means you can deal with those challenging conditions to a certain extent by yourself." At Embassy, for example, the main power sources are a high-temperature anaerobic digester that generates pipeline-grade natural gas (conditioned bio-methane), coupled with a solar hot-water system.

The European-manufactured, high-temperature anaerobic digester, Pierce explains, will enable the facility to process human sewage and organic garbage—collected from up to 2,000 safe-storage units in neighborhoods throughout

Colombo and transported to the digester via electric vehicles—into clean natural gas that fires a co-generation plant producing electricity. In addition, agricultural residue will be collected from rural areas on the island and sent to the digester. Biomass collection goals are set at approximately one-quarter to one-half sewage, and one-half to three-quarters organic food, paper, and crop waste.

In addition to new green sanitation collection and transportation jobs created throughout Colombo by the anaerobic digester, Pierce foresees the bio-natural gas created by the digester as a potential fuel to replace petroleum-based gasoline and diesel. "We're hoping the digester will be the seed that transforms transportation energy in Sri Lanka and moves the country in the direction of energy independence," he says.

>> continued on page 58



engine

"We're essentially starting from scratch and creating a new healthcare business for the region. The business will change over time. So on the planning side, we're focusing on basic programs, with the flexibility to grow into specialty programs."

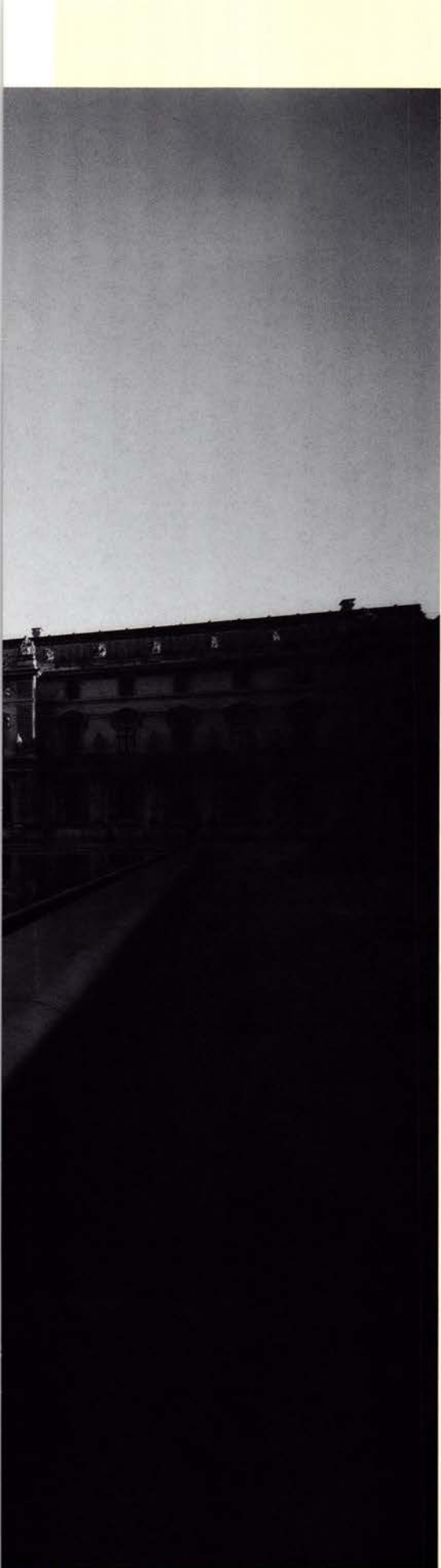
—Perkins+Will principal Rick Hintz, AIA



The contemporary Embassy Medical Center will exude cutting-edge medical care, but it will do so in a vocabulary appropriate to the setting and in a manner grounded in local history and culture. Abundant sunlight and outdoor access add to the "healing home" environment.



"Some Parisians consider I.M. Pei's glass pyramid to be an atrocity, but I cannot conceive of a more elegant architectural solution," says Sieger. "I like the way the shape of the reflecting pool speaks to the pyramid above it." Normally photographers aren't permitted to use tripods at public monuments like the Louvre. "I was lucky," says Sieger, "and got the guard's permission to set up my view camera to make this picture."



Paris in Focus

Minneapolis architect and photographer Pete Sieger, AIA, captures in black and white the architectural richness of one of the most beautiful cities in the world

Introduction by Glenn Gordon

Photographers have been drawn to Paris since photography was first invented, and no wonder—Paris is the City of Light, and a photograph is in essence a thing made with light.

The Latin roots of the word *photography* mean “drawing with light,” and that being so, you could say that a photographer is a kind of draftsman. If this draftsman happens to be an architect, it’s likely that his inclination is to “draw” buildings with a lens focused sharp as the tip of a crow-quill pen (if you’re old enough to remember what those were) or the tip of a cursor (if you’re too young to remember anything else).

Pete Sieger, AIA, who by day is an architect with the Minneapolis firm Meyer, Scherer & Rockcastle (MS&R), has been photographing Paris in this

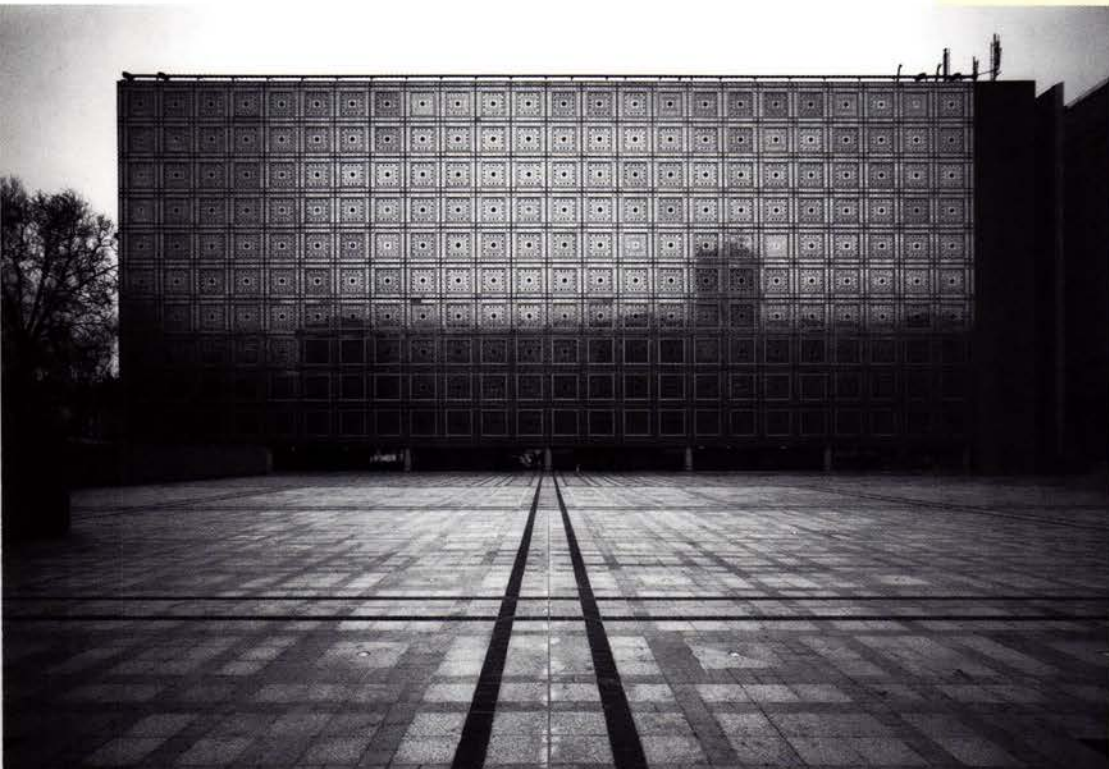
manner—with an eye trained in architecture—for the past 10 years. He and his wife Kathi have now made six visits to the city, the first in the summer of 1998, the most recent this past August. Starting with a simple point-and-shoot and graduating to more sophisticated cameras on subsequent trips, Sieger has roamed the streets of the city in the spirit and sometimes in the literal footsteps of a figure greatly revered in the history of photography, the peripatetic Eugène Atget.

From the 1890s through the 1920s, the itinerant Atget (1857–1927) produced more than 10,000 glass-plate images of Paris street scenes—long exposures, mostly shot at hours when the streets were empty. After discovering Atget’s work in a set of books published by the Museum of Modern Art in New York, Sieger was moved to re-photograph

>> *continued on page 60*

**MUSÉE DU LOUVRE, COUR NAPOLÉON,
PYRAMIDE DU LOUVRE, 2001**

*Looking east toward entrance,
1st Arrondissement*



Clockwise from top left:

INSTITUT DU MONDE ARABE, 2001

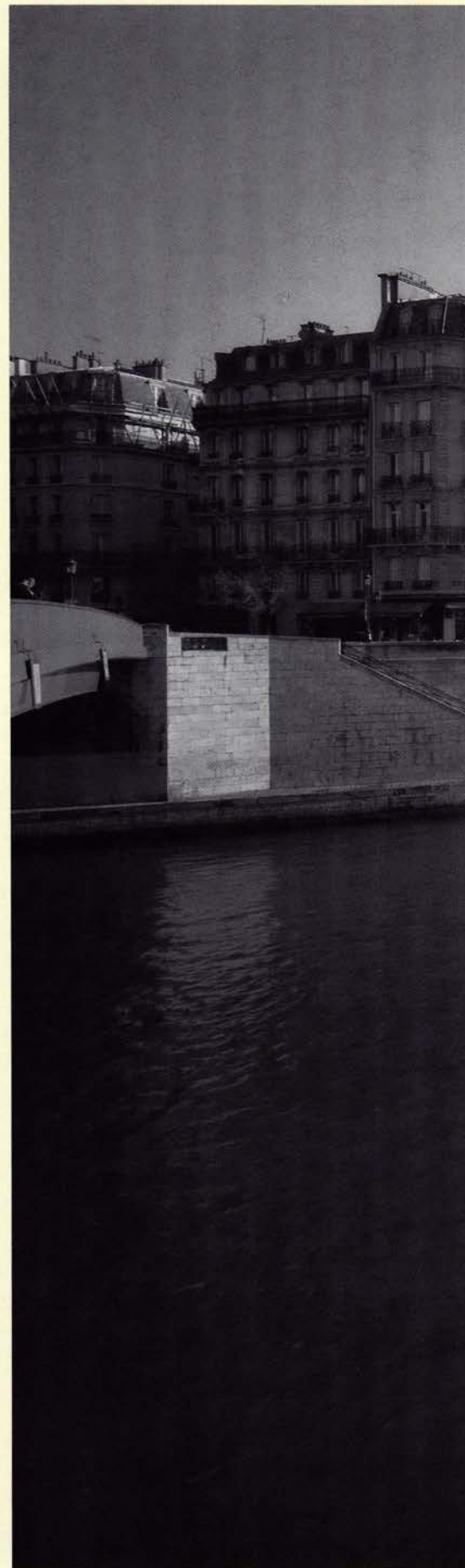
*South façade of
photo-sensitive apertures,
5th Arrondissement*

**ÎLE SAINT-LOUIS, SEINE,
AND QUAI D'ORLÉANS, 2001**

*Looking east along Pont Saint-Louis,
4th Arrondissement*

**BIBLIOTHÈQUE NATIONALE
DE FRANCE, 2007**

13th Arrondissement





This expertly composed image, like Sieger's photo of the Louvre pyramid and reflecting pool, was made with a four-by-five-inch large-format view camera and wide-angle lens—ideal tools for architectural photography but cumbersome to haul around. A photographer who does this is dedicated to doing things right. More recently, Sieger has been able to achieve images of equivalent quality with a digital SLR and a specialized tilt-shift lens designed to overcome optical distortion.



ROOFTOPS, 2007

*From 13 Rue le Regrattier,
4th Arrondissement*

as many of Atget's sites as he could, shooting from the exact spots where Atget placed his wooden tripod and eight-by-ten-inch view camera a century ago. Some of the fascinating results of that project—Atget's vintage views paired side-by-side with Sieger's own from a hundred years later—are handsomely displayed at MS&R's studio in the Mill City Museum building. (A similar re-photography project undertaken by the photographer Christopher Rauschenberg was recently published in the book *Paris Is Changing*.)

Sieger loves the black and white tradition; he looks at this classic city in a classic way. The images presented in this portfolio trace

Sieger's own poetic meanders through Paris, a seasoned architect's responses to buildings and public spaces ancient and new, some of them famous, some that he's come upon serendipitously. Most of these pictures were made with a four-by-five-inch view camera, a photographic instrument that requires a photographer to slow down and compose with great care. Many of them were shot in winter light, in the diffuse overcast of December, after it's rained, the sheen of the wet streets enhancing the mood of this most romantic of cities. Looking at them, you can see what draws Pete Sieger to Paris again and again. **AMN**

PARIS MÉTRO, 2007

*Quai de la Gare,
13th Arrondissement*



A view to the northeast across the Seine from inside the Quai de la Gare Métro station, taken in the rain just before Sieger photographed the new Bibliothèque Nationale not far away. In this photograph, as with the view on the previous spread of Île Saint-Louis with those spikes, Sieger has made deft use of a near-foreground detail—in this case, the train signals on the right—to emphasize distance.



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Climate Zone

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inexpensive material," notes VJAA's Nathan Knutson, AIA, "and with labor and material costs about one-half of what they are in the U.S., we could afford a traditional building material." And yet the walls play a part in a series of sophisticated sustainability strategies, including rooftop solar collectors to heat water for the pool and showers, radiant and displacement cooling, operable skylights to induce stack-effect ventilation, precast and aluminum louvers sized to keep glass areas in shade, green roofs to reduce the heat-island effect, cisterns for annual water collection for irrigation, vine-covered trellises and water walls to cool exterior spaces, and chilled seawater to help cool the entire lower campus.

The traditional value that people put on shade in Beirut's sun-drenched climate led VJAA and landscape architects Hargreaves Associates to save most of the site's existing trees and extensively plant new ones. "After we received the commission," says James, "we showed our clients why the out-of-scale, sun-baked plaza in the master plan didn't work, visually superimposing other university spaces on the site. It helped them understand their own campus." It also resulted in the university commissioning VJAA to look at other tree-shaded open space on campus. Preserving trees in Lebanon, whose flag displays the native cedar tree, has political and cultural meaning. So too does respecting tradition, responding to climate, and rejecting monolithic modernism. Architecture that excels in these areas achieves a symbolic role that often gets lost in our increasingly global profession, where architects end up "exporting styles," says Yoos, "when what we need is a strategy of reinterpreting what is there."

That approach can take more time and attention, but it can also produce amazing results, as this building shows. In its demonstration of how tradition can profoundly transform modernism for the good, the Hostler Center holds out the hope that, in our common struggle, the Islamic and Judeo-Christian worlds can find a way to get beyond caricatures to anticipate a day in which we recognize and respect each other's cultural "authenticity," as Robert D. Lee describes it. That is particularly urgent in a country such as Lebanon, which has suffered from repeated sectarian violence. Of all the exercises occurring at the Charles Hostler Student Recreation Center, none may be more important than learning from its example of authentic understanding. **AMN**

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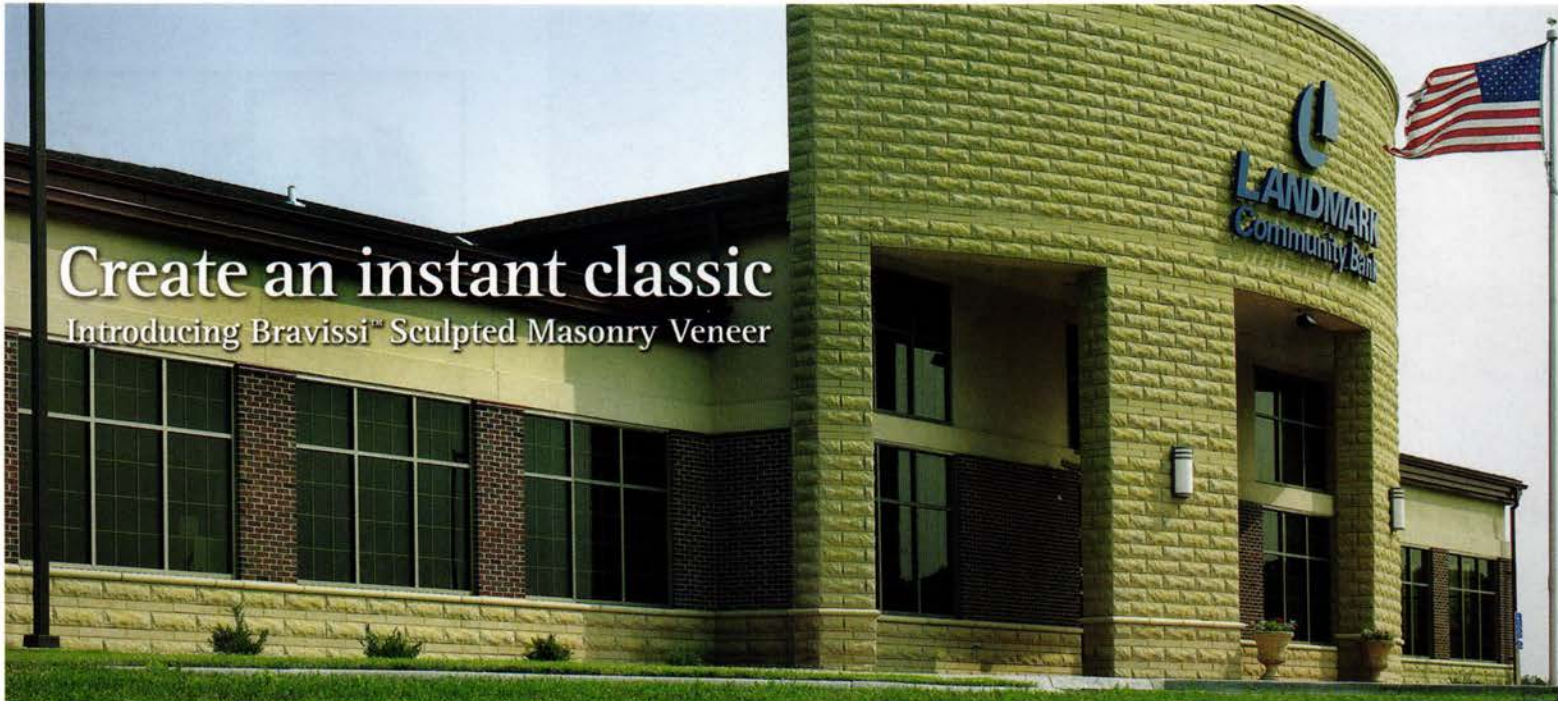
<< continued from page 27

an organization that aims to connect design, art, and activism. Gallas elaborates: "Solutions gives guest speakers 6 minutes and 40 seconds to present 20 images. We provide music, food, and beverages afterward so people have a chance to share ideas." AFH-MN presented its work at the first Solutions gathering and was featured in the Solutions for the Other 90 Percent event held at Walker Art Center this past summer.

What's next for AFH-MN? "We've designed storage lockers that provide homeless people with a place where they can receive mail, exchange messages, and store their personal items and important documents, such as birth certificates," Ness reports. Some lockers exist, but they are cumbersome and not very attractive. "We felt that if the lockers were mobile and better looking they would be more likely to attract hosts," adds Swainhart. "We'll raise the funds, build the lockers, learn what works, and then post the plans on the Open Architecture Network" (www.openarchitecturenetwork.org). Ideally, lockers will be located at social-service-agency facilities, churches, and other places near where homeless people work or are temporarily housed. The first lockers will be installed at Simpson Housing Services in Minneapolis. **AMN**

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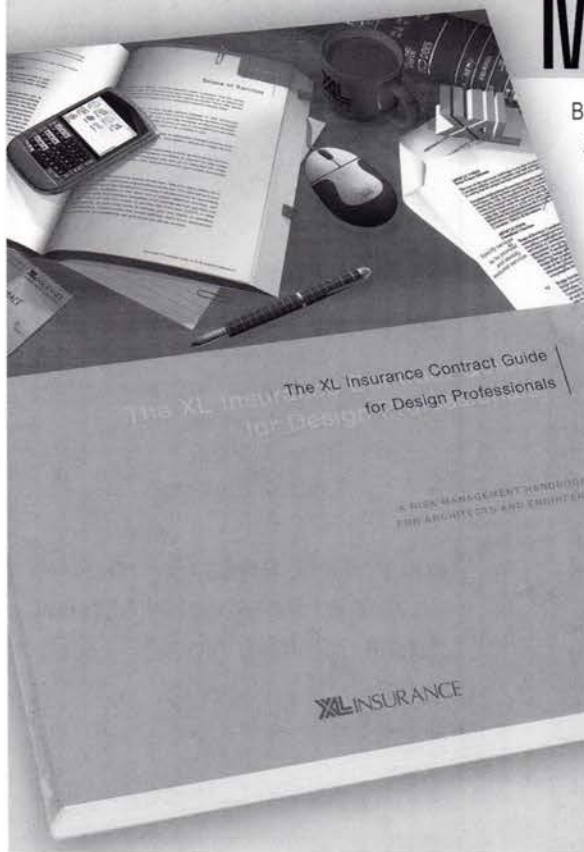
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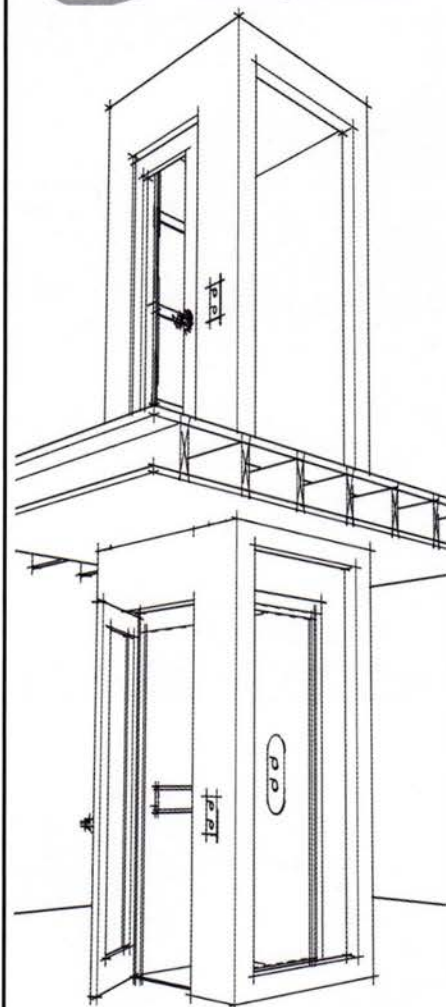
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Modern Epic

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Cunningham Group was hired again to work on the Verona campus, the working relationship has expanded to include planning for future growth. Cunningham Group's experience designing for Disney, Paramount, and Universal Studios has come into play at Epic, which Faulkner describes as "a cross between an office park and Disneyland." But the adventure tunnel, circus-themed conference room, and tire swings aside, serious principles underlie the design: Work in the 21st century is 24/7, non-hierarchical, and highly collaborative. "Our software is fully integrated, from the pharmacy to the operating room," says Faulkner, "so everyone must talk together." Thus the easy access from one building to another, with tunnels and skyways backing up the outdoor walkways. The soaring, shed-roofed Commons dining hall also serves as a gathering place. Food prepared by two Madison chefs encourages lunchtime mingling. Neon yellow, green, and red picnic tables reinforce the informal college atmosphere.

But the centerpiece of the campus is the curving, glassy Learning Center. The size of a small-city convention center, the new facility accommodates the need to train 700 people a week. Its 1,600-foot length snakes along the prow of a hill. "It's a simple gesture that follows the edge of the hill and avoids a big long corridor," says Kylo.

Two floors of training rooms follow the outside of the arc, where floor-to-ceiling windows offer dramatic views of the countryside. "They've shown that people learn better when they can see out," says project designer Chad Clow, AIA. Breakout rooms with individually designed wood-burning fireplaces animate the inside curve of the arc. A thick "tech-way" between the two floors holds all the mechanical and electrical equipment. Monthly employee meetings are held in the fan-shaped auditorium, which seats more than 5,000. The Learning Center also comes alive during the annual User Group Meeting in September, when 4,000 customers come for a four-day combined bash and feedback session on how the software works.

"Judy doesn't do any marketing," Cunningham notes. "The User Group Meeting is it." Well, that and the campus itself, which "helps visitors, future clients, and prospective employees find out who we are," Faulkner says. But for Faulkner the campus is first and foremost something else: an inviting, energizing environment for the people who work there. "This is our home," she says.

"We live here." **AMN**

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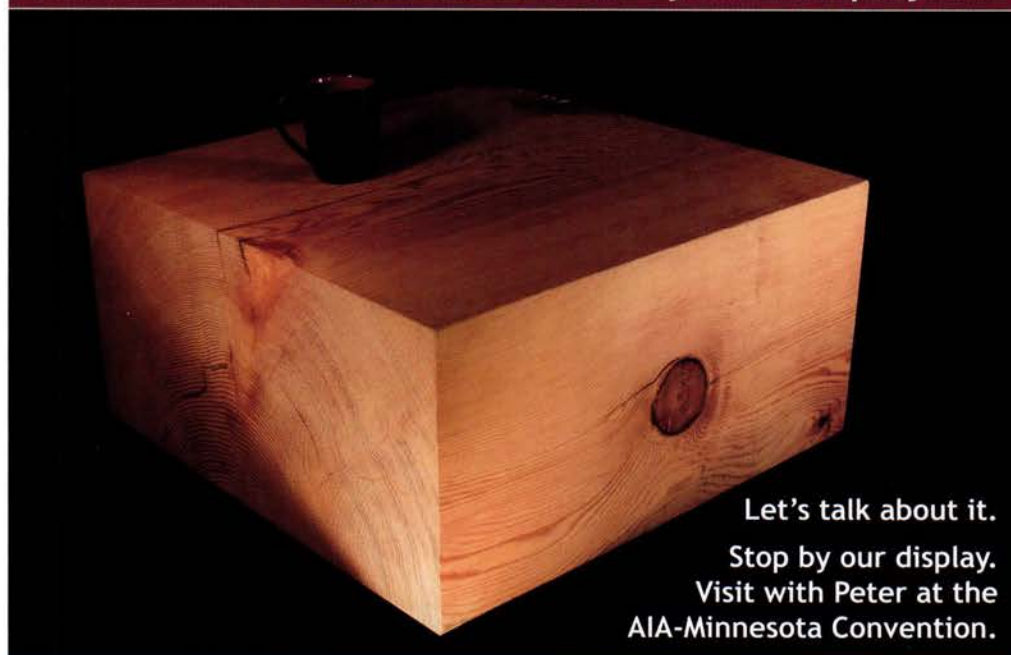
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On-site cisterns will collect and store rainwater, pre-filtered via green roofs, during the monsoon season for use in the facility. Stormwater ponds will retain and filter water for charging the aquifer. The medical center's massing maximizes energy efficiency through daylighting and natural ventilation; narrow east-west floor plates allow daylight to penetrate the north and south façades, and courtyards and light shafts bring in daylight while drawing in breezes. Photovoltaic arrays on roof gardens harvest sunlight for electricity while shading seating areas.

"We've used the environmental aspects of sustainable design not only to create new green job opportunities and a medical facility that's a healthier environment to heal in," Pierce says, "but also to support the facility's role as a self-sufficient safe haven for the community."

Pierce adds that architects need to rethink design benchmarks in the midst of climate change. "Changing how we design relative to climate extremes is just starting to emerge, along with the dialogue about resetting benchmarks," he says. "Benchmarks such as, How much stormwater do we need to deal with? What are the floodplain elevations? What are the wind loads on buildings? As climate extremes become more extreme, we're going to have to start building for the effects of climate change in order to cope with it."

Local and International Medical Care

At the same time, Perkins+Will has designed Embassy Medical Center "to include the most sophisticated and advanced medical innovations, technologies, and design features to assist its doctors in offering world-class medical treatment," explains principal Rick Hintz, AIA. Colombo has an urgent need for such a facility because government and other private hospitals there do not have the capacity to meet the rising demands of the city's growing population for safe and high-quality medical care.

"We're essentially starting from scratch and creating a new healthcare business for the region," says Hintz. "The business will change over time. So on the planning side, we're focusing on basic programs, with the flexibility

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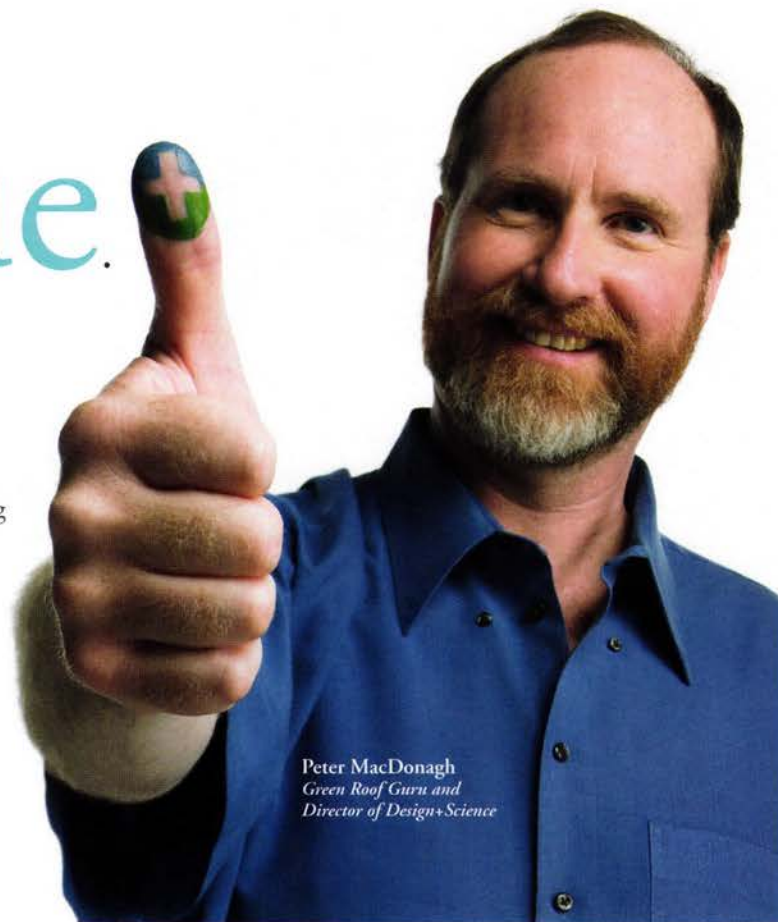
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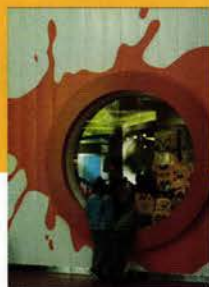


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Seoul Provider

<< continued from page 48

The recognition that healthcare services evolve not only as technology develops, but also as cultural norms change, demands hospital design that is flexible over time. "As the delivery of healthcare changes," says Johnson, "this building will be able to adapt"—an assertion supported by the fact that Samsung underwent a major adaptation at the beginning of construction, when the program changed from a cardiology hospital to a cancer center. "Overlaid on the functions of this facility," Johnson continues, "is a kind of infrastructure that ensures that the building has embedded within it as many ways of looking at future change as possible, so it can have a long life."

Reflecting on Samsung Cancer Center and other international projects his firm has completed, Mic Johnson acknowledges both the challenges and opportunities of working abroad. "It's easy to design something that is completely American," he says. "We just do what we usually do. But to go in and really try to understand how a building will work in its unique location in the world, with that unique culture, is far more gratifying." **AMN**



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Next Top Model

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to grow into specialty programs." The components include an outpatient medical clinic; a hospital with 180 private patient rooms; a parking ramp; a dormitory for employees, students, and visiting physicians; a hotel for visitors traveling for medical treatment; and the green power plant. "We've designed these components or modules to plug together into the infrastructure, which will grow over time," Hintz says.

But the aesthetic won't be industrial, he adds. While housing contemporary medical practices and state-of-the-art technology, the architecture "will be lush and loaded with ways of introducing sunlight, dappled shade, water, and tranquility into the interior to create a healing environment," Hintz explains. "There will be balconies off the private rooms and shaded gardens for families."

Overall, says Hintz, the final design will express a balance between the indigenous culture of Sri Lanka and advanced medical design and technology, resulting in a medical destination not only for area residents but also for the growing industry of medical tourism (which in turn will further fuel the project's economic sustainability). "Because more physicians from countries like Sri Lanka are being trained at Mayo and Johns Hopkins, then returning home to practice, international healthcare tourism is on the rise," Hintz explains.

For example, as insurance denials and healthcare costs rise in the U.S., people are seeking options for surgeries overseas that are less expensive and in beautiful locations for recovery. Embassy Medical Center, with its adjoining hotel catering to healthcare tourists, will be an attractive option. "The clientele would be U.S. and European citizens, as well as expatriates working in corporations around the world and looking for quality healthcare without having to return to the U.S.," Hintz says.

Economic Engine

Embassy Medical Center is poised to infuse Sri Lanka's economy with medical tourism dollars. But the facility will also generate a variety of employment opportunities in addition to green jobs associated with the power plant. The complex includes dormitories and classroom space for training local residents to perform hospital functions; healthcare specialists

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F. Copies not Distributed (See Instructions to Publishers #4, (page 8))	795
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16. Publication of Statement of Ownership for a Requester Publication is required and will be printed in the September/December 2008 issue of this publication.	
17. Signature and Title of Editor, Publisher, Business Manager, or Owner Beverly Hauschild-Baron	
Date August 8, 2008	



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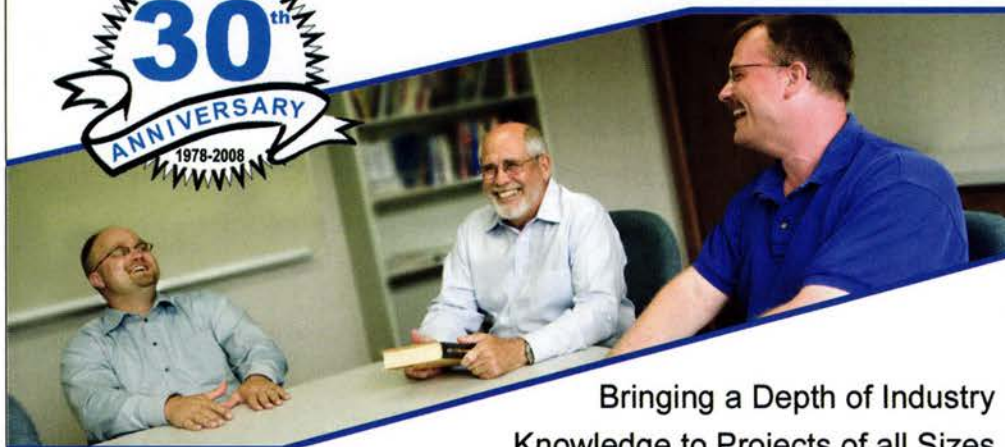
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Next Top Model

<< continued from page 72

from around the world will use the classrooms to educate hospital staff in the latest medical techniques and technologies.

In addition, Perkins+Will has been training local architects, contractors, engineers, and landscaping specialists to maintain the facility once it's completed. "Part of the jobs aspect of this project is educating local people to keep the facility self-sustaining," Pierce says. "We feel that if we have knowledge and expertise, we have a social responsibility to share it. Again, this falls under the umbrella of sustainability—keeping that expertise local."

Embassy Medical Center is not just a building, he adds, "but an entire design that looks at site, design, context, economics, and social impacts from a holistic sustainability model. If we're going to be relevant to the world, architects need to continue to advance the quality of life for people. That's really our job. And we always have to be on the front edge of that and push in order to add value to the rest of society." **AMN**

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612.343.3330

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4930 W. 77th St. #100
Edina, MN 55435
952.835.2141

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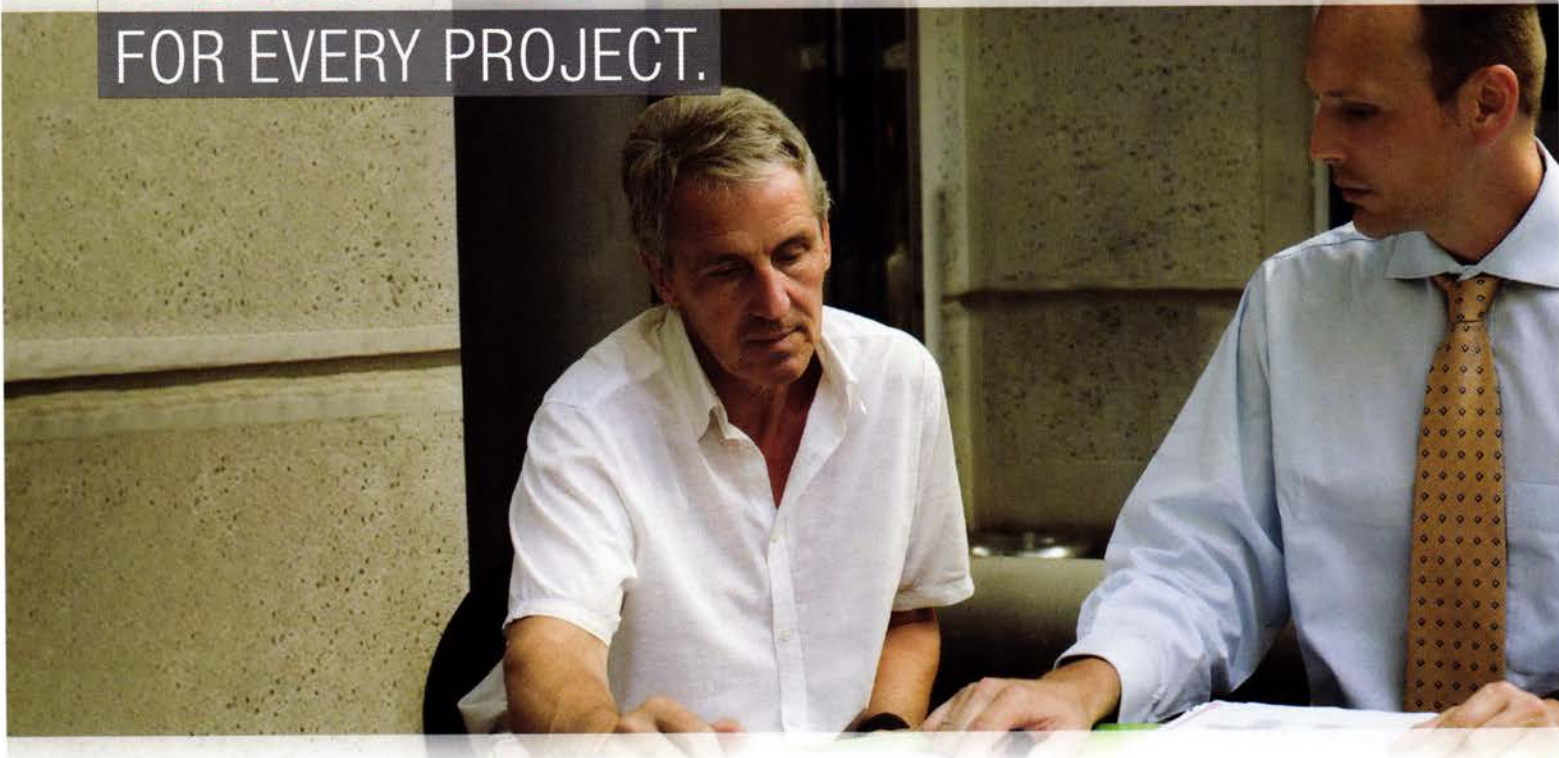
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275 Market Street, Ste 54
Minneapolis, Minnesota 55405
612-338-6763
www.aia-mn.org/contract_documents.cfm

DIRECTORY OF GENERAL CONTRACTORS

Welcome to *Architecture Minnesota's 13th Annual Directory of General Contractors*. The following paid listings were solicited from the membership of the Associated General Contractors (AGC) of Minnesota (651-632-8929), a statewide association of building, heavy/industrial, highway, and municipal/utility contractors since 1919, and from other sources.

General Contractors are important team players in the building and design industry. We invite you to use this directory as a resource for upcoming projects—both in Minnesota and out-of-state.

OSCAR J. BOLDT CONSTRUCTION

1001 Tall Pine Lane
Cloquet, MN 55720
Tel: (218) 879-1293
Fax: (218) 879-5290
Email: kirk.ilenda@boldt.com
www.boldt.com
Established 1889
Other MN Office: Grand Rapids,
(218) 326-8242
Total in MN Office: 39
Augusta, GA; Iron Mountain (MI); Oakbrook
(IL); Oklahoma City, Tulsa,
Sacramento, San Francisco
Total Other Offices: 330
Contact: Kirk Ilenda, Dir. Bus. Dev.
(218) 878-4529

Company Principals

Tom Boldt, CEO
Bob DeKoch, Pres./COO
Dale Von Behren, CFO
Ron Hanson, Exec. VP/GM MN Oper.

Boldt invites clients to "Realize what's possible" on their projects. We strive to provide owners with construction services that exceed their expectations. We complete projects in the healthcare, higher education, power and commercial marketplace. We offer a full range of services: program management, construction management, design/build, general construction, consulting, planning, conceptual estimating, certified value engineer services, LEED certification, maintenance services, heavy rigging and crane support, and machinery installation.

College of St. Scholastica (wellness center addition phase II), Duluth, MN; University of Minnesota Duluth (Labovitz School of Business), Duluth, MN; St. Olaf College (new science complex), Northfield, MN; Lake Country Power Service Center, Mt. Iron, MN; Mayo Health System Owatonna Clinic, Owatonna, MN

BOR-SON CONSTRUCTION, INC.

2001 Killebrew Drive, #400
Minneapolis, MN 55425
Tel: (952) 854-8444
Fax: (952) 854-8910
Email: dwalock@borson.com
www.borson.com
Established 1957
Contact: Dave Walock, (952) 854-8444

Company Principals

Gary Heppelmann, Pres./CEO
Dave Walock, VP
Jim Williams, VP
Gary Krocak, VP
Dave Anderson, Chief Est.
Chris Stewart, VP Oper.

For over 50 years, BOR-SON Construction, Inc. has been providing pre-construction, general contracting, construction management and design/build services throughout the Upper Midwest. Employing more than 100 construction professionals: estimators, project managers, construction managers, superintendents and skilled trades people, BOR-SON specializes in commercial, multi-housing, mixed-use, healthcare, hospitality, education, industrial and religious projects.

aloft Hotel, Minneapolis, MN; Zenith Condominiums, Minneapolis, MN; St. Anne's Senior Housing, Minneapolis, MN; Bremer Bank, Oak Park Heights, MN; Western Row, St. Paul, MN; Security Forces Operations Facility, Minneapolis, MN

BOSSARDT CORPORATION

8585 West 78th Street, Suite 100
Minneapolis, MN 55438
Tel: (952) 831-5408
Fax: (952) 831-1268
Email: info@bossardt.com
www.bossardt.com
Established 1983
Contact: John Bossardt, (952) 831-5408

Company Principals

John Bossardt, Pres.
Charlene Jasan, SVP
Steve Kilmer, Sr. VP
Mark Bosch, VP

Bossardt Corporation brings 25 years experience providing professional construction management, owner representative and cost estimating services to public and private sector clients on projects including education, healthcare, industrial, multi-housing, municipal, county and religious facilities. Our experienced staff is committed to providing accurate cost/budget estimating, effective value engineering strategies and reliable scheduling.

School District of New Richmond, WI; School District 112 - Chanhassen High School, Chanhassen, MN; Prior Lake-Savage Public Schools, MN; Scott County (SCALE) Regional Public Safety Training Facility, Jordan, MN; Redwood Area Hospital, Redwood Falls, MN; MnSCU Century College, White Bear Lake, MN

CONSTRUCTION RESULTS CORPORATION

14170 23rd Avenue North
Plymouth, MN 55447
Tel: (763) 559-1100
Fax: (763) 553-0494
Email:
mark.snyder@constructionresults.com
www.constructionresults.com
Year Established: 1999
Total in MN Office: 30
Contact: Mark Snyder, (763) 559-1100

Company Principals

Mark D. Snyder, Pres.
John Snyder, VP
Ned Meyer, VP

Construction Results Corporation provides professional general contracting services for renovation work as well as new construction. We perform demolition, concrete, carpentry and supervision work with our own crews. We work on design-build, negotiated or competitively-bid projects. Our team provides a strong commitment to service, quality, safety and value.

Macy's at Burnsville Center (remodel three floors), Burnsville, MN; WSI Industries (addition project); Trinity Lutheran Church (sanctuary remodel); Metro Transit (Hiawatha LRV sanding project); Dunn Bros. Coffee at the Minneapolis Convention Center, Minneapolis, MN; White Bear Acura (dealership remodel), White Bear Lake, MN

GEORGE F. COOK CONSTRUCTION CO.

2300 Nevada Avenue North, Suite 200
Golden Valley, MN 55427
Tel: (763) 450-4565
Fax: (763) 450-4567
Email: info@georgefcook.com
www.georgefcook.com
Established 1885
Total in MN Office: 24
Contact: George F. Cook III, (763) 450-4565

Company Principals

George F. Cook Jr., Chrm.
George F. Cook III, Pres.
Joel Cleveland, Sec.

George F. Cook Construction Co. is a general contractor providing rehabilitation and new construction for commercial, industrial, and manufacturing facilities. Company employees perform selective demolition, concrete, and all types of carpentry work. Projects include schools and community facilities.

Park Midway Bank, St. Paul, MN; South Education Center, Richfield, MN; Polar Semiconductor, Bloomington, MN; Farmington High School, Farmington, MN; Watertown Mayer High School, Watertown, MN; St. Michael - Albertville High School, St. Michael, MN

CRAWFORD MERZ ANDERSON CONSTRUCTION CO.

2316 4th Avenue South
Minneapolis, MN 55404
Tel: (612) 874-9011
Fax: (612) 874-9015
Email: chucka@cmacco.com
www.cmacco.com
Established 1886
Total in MN Office: 35
Other MN Office: Brainerd, (218) 568-5310

Company Principals

Chuck Anderson, Pres.
Wayne D. Anderson, VP
Steve Schroeder, Sr. Proj. Mgr.
Ken Seiler, Sr. Proj. Mgr.
Travis Farniok, Proj. Mgr.
Andy Triplett, Asst. Proj. Mgr.

continued next column

Extent of services/specialties: specializing in interior and exterior remodeling and restoration along with new construction and pre-engineered metal buildings. CMACCO provides proven, quality workmanship with highly experienced, long-term field personnel. Dedicated employees enable CMACCO to work closely with subcontractors and suppliers, developing new and continued relationships with architects, owners and building officials while also providing clients with professional, efficient, cost-effective construction projects. We strive to EXCEED our clients' expectations.

Metropoint, The Center for Business, St. Louis Park, MN; Basilica of Saint Mary, Minneapolis, MN; Minikahda Club, Minneapolis, MN; Marquette Hotel, Minneapolis, MN; St. Martins by the Lake Episcopal Church, Minnetonka Beach, MN; YMCA, Minneapolis, MN

JE DUNN CONSTRUCTION

9855 West 78th Street, Suite 270
Eden Prairie, MN 55423
Tel: (952) 830-9000
Fax: (952) 830-1365
www.jedunn.com
Year Established: 1924
Total in MN Office: 130
Other Offices: Atlanta, Austin, Bentonville, Charlotte, Colorado Springs, Dallas, Denver, Des Moines, Houston, Kansas City (MO), Nashville, Oklahoma City, Omaha, Phoenix, Portland, Seattle, Springfield, Topeka
Total in Other Offices: 4,100
Contact: Kenneth Styrlund, Pres.
(952) 830-9000

Company Principals

Kenneth Styrlund, PE, LEED AP, Pres.
Douglas Loeffler, LEED AP, VP
Roger Helgeson, VP
Scott Sharp, VP
Harlan Hallquist, VP
Jeff Callinan, LEED AP, VP

JE Dunn provides services for design-build, preconstruction, general construction and construction management in the areas of healthcare, cultural, commercial, educational, hospitality, religious, retail and mixed-use buildings.

Meeker County Memorial Hospital, Litchfield, MN; Sheraton Hotel, Woodbury, MN; Northrop Auditorium (exterior renovation), University of Minnesota, Minneapolis, MN; Microsoft Fargo Campus (office expansion), Fargo, ND; Minneapolis College of Art & Design (parking garage and academic space), Minneapolis, MN; Carleton College (residence buildings), Northfield, MN

ENGELSMAN CONSTRUCTION, INC.

7119 31st Avenue North
New Hope, MN 55427
Tel: (763) 536-9200
Fax: (763) 536-9202
Email: je@e3construction.com
Established 2004
Total in MN Office: 17
Contact: Jeff Engelsma, (763) 536-9200

Company Principals

Jeff Engelsma
Kyle Knudsen, Sr. Mgmt.
Brent Lindstrom, Sr. Mgmt.
Jerry L'Allier, Dir. Field Oper.

Engelsma Construction is a third generation builder providing pre-construction, general construction, construction management and design-build services to the commercial and industrial markets. Engelsma specializes in office, retail, entertainment, and institutional construction. The experienced staff at Engelsma is committed to providing quality construction services by setting the standard for honesty, integrity, and value from preconstruction through project completion.

Hoigaard's, Miracle Mile in St. Louis Park, MN; Thomasville Furniture at Woodbury Lakes, Woodbury, MN; The Retreat Family Wing and McIver Center, Wayzata, MN; Best Buy at Southbridge Crossings, Shakopee, MN; University Enterprise Laboratories, St. Paul, MN; 10600 Medical Office Building, Plymouth, MN

FRANA COMPANIES, INC.

633 Second Avenue South
Hopkins, MN 55343
Tel: (952) 935-8600
Fax: (952) 935-8644
Email: info@frana.com
www.frana.com
Established 1977
Total in MN Office: 150
Contact: Kris Glaros-Hanson,
(952) 935-8600

Company Principals

Peter Donnino, Pres.
Mike Benedict, VP
Stuart Bestul, VP

Since 1977, Frana Companies has been providing general contracting services, specializing in new construction and remodeling of commercial and multi-family projects. We offer pre-construction, general contracting, construction management, and design-build services for competitively bid or negotiated projects. Frana specializes in multi-family apartments, senior and assisted living condominiums, cooperative mixed-use and commercial facilities. We perform demolition, carpentry management and supervision with our own crews. We are committed to safety, quality construction, experienced project management and supervision, and client satisfaction.

Eitel City Apartments, Minneapolis, MN;
Parmly Lifepoint Senior Campus
(apartments, wellness center, memory care),
Chisago, MN; Blue (Leed Certified
apartments), Minneapolis, MN; Glendale
Place Senior Apartments, Savage, MN;
Norris Square Senior Housing (assisted
living, memory care), Cottage Grove, MN

KM BUILDING COMPANY

801 2nd Avenue North
Minneapolis, MN 55405
Tel: (612) 977-9060
Fax: (612) 977-9061
Email: sfaber@kmbldg.com
www.kmbldg.com
Established 1964
Total in MN Office: 35
Contact: Steven Faber, 612/723-6113

Company Principals

Steven Faber, COB
John Ryan, Pres.
Jim Johnson, VP
Steve Leverington, Sr. Proj. Mgr.
Bjorn Anderson, Proj. Mgr.

KM Building Company is a hands-on, full-service general contractor that provides personal service and experience on every project with a commitment to unparalleled quality, value and service. Services include general contracting, design-assist, pre-construction, construction management, and post-construction. Successful projects require a solid foundation of trust and commitment. Most of our business is repeat business because we fulfill our commitments and keep our promises.

NBA City Restaurant - Target Center,
Minneapolis, MN; Colle + McVoy Advertising,
Tenant Improvement in the Wyman Building,
Minneapolis, MN; Immaculate Heart of
Mary School and Church Additions,
Minnetonka, MN; Historic Straus Knit
Building Housing Conversion, Lowertown St.
Paul, MN; Jeremiah Program Apartment
Complex, Minneapolis, MN; 19th Street
Financial Center, New Build, Rochester, MN

KNUTSON CONSTRUCTION SERVICES, INC

5500 Wayzata Boulevard, Suite 300
Minneapolis, MN 55416
Tel: (763) 546-1400
Fax: (763) 546-2226
Email: tschilling@knutsonconstruction.com
www.knutsonconstruction.com
Established 1911
Other MN Office: Rochester
(507) 280-9788
Total in MN Offices: 500
Other Office: Iowa City, IA
Total in Other Office: 200
Contacts: Minneapolis - Todd Schilling,
(763) 546-1400
Rochester - Dave Bastyr, (507) 250-9788

Company Principals

Steven Curry, Pres./CEO
Todd Schilling, VP/GM
Michael Wolf, CFO
Dave Bastyr, VP/GM (Rochester)
Geoff Glueckstein, VP, Proj. Mng./Dev.

Knutson Construction Services is one of the longest continuous-operating, most experienced construction firm in the country. They have a national-recognized, award-winning workforce providing a broad range of services including: pre-construction, general contracting, construction management, design-build, and tenant improvements. They are also leaders in green construction with many accredited professionals on staff.

Blattner Corporate Headquarters (seeking
LEED Platinum Certification), Avon, MN;
University of Minnesota Plant Growth BSL-3
Laboratory, St. Paul, MN; Children's
Hospitals and Clinics (ambulatory care
center and parking ramp), Minneapolis, MN;
Park Nicollet Methodist Hospital
(Frauenshuh Cancer Center and parking
ramp), St. Louis Park, MN; Treasure Island
Resort and Casino Hotel (entertainment
addition), Welch, MN; Olmstead County
(waste-to-energy facility), Rochester, MN

KRAUS-ANDERSON CONSTRUCTION COMPANY

525 South 8th Street
Minneapolis, MN 55404
Tel: (612) 332-7281
Fax: (612) 332-0217
Email: john.campobasso@k-a-c.com
www.krausanderson.com
Year Established 1897
Total in MN: 640
Other Offices: Kansas City (KS), Madison,
Phoenix
Total Other Offices: 48
Contact: John Campobasso, (612) 332-7281

Company Principals

Bruce W. Engelsma, CEO/Pres.
Alan A. Gerhardt, COO
Philip F. Boelter, EVP
Mark J. Coudron, SVP
Richard J. Jacobson, SVP
John A. Stencel, VP

Kraus-Anderson Construction Company is a leading provider of general contracting and construction management services. Our projects are delivered within a team-oriented format, working together with all parties, so informed decisions are made prior to the commencement of construction. We are dedicated to providing quality projects on schedule that meet our clients' expectations.

Black Bear Casino and Resort, Carlton, MN;
Coloplast North America Headquarters,
Minneapolis, MN; Regions Hospital, St. Paul,
MN; University of Minnesota Medical
Biosciences Building, Minneapolis, MN;
Washington County Campus, Stillwater,
MN; Spring Lake Park Schools, Spring Lake
Park, MN

MCGOUGH COMPANIES

2737 Fairview Avenue North
St. Paul, MN 55113
Tel: (651) 633-5050
Fax: (651) 633-5673
www.mcgough.com
Established 1956
Other MN Office: Rochester
(507) 536-4870
Total in MN Offices: 180 Office,
450 to 900 Field
Other Office: Phoenix
Total in Phoenix: 45
Contact: Brad Wood, (651) 633-5050

Company Principals

Thomas J. McGough, Sr., Chrm.
Thomas J. McGough, Jr., Pres.
Bart Zibrowski, EVP
Bake Baker, EVP
Mike Hangge, EVP
Brad Wood, EVP

McGough offers strategic facility and organizational planning, development, general contracting, construction management and design-build services and post-occupancy services. McGough has an unmatched reputation for delivering high-quality projects on time and within budget. From complete "turnkey" development to general construction services, McGough has maintained a firm commitment to time-tested guiding principles.

*Guthrie Theater, Minneapolis, MN;
Medtronic World Headquarters, Fridley, MN;
Cathedral of St. Paul, St. Paul, MN;
HealthEast St. Joseph's Hospital, St. Paul, MN;
University of Minnesota Hanson Hall, Minneapolis, MN;
General Mills World Headquarters, Golden Valley, MN*

MORTENSON CONSTRUCTION

700 Meadow Lane North
Minneapolis, MN 55422
Tel: (763) 522-2100
Fax: (763) 287-5430
Email: tom.hysell@mortenson.com
www.mortenson.com
Established 1954
Total in MN Office: 455
Total Other Offices: 2255
Other Offices: Chicago, Denver, Milwaukee,
Phoenix, Seattle, Shanghai
Contact: Tom Hysell, AIA, LEED AP
(763) 287-5141

continued next column

Company Principals

Ken Sorensen, VP
Kendall Griffith, Dir. of Oper.
Tom Hysell, AIA, LEED AP, Dir. Bus. Dev.
Dan Mehls, Construct. Exec.
Paul Kitching, Constr. Exec.

Mortenson Construction, founded in 1954, is a Minneapolis-based, family-owned company. The company's purpose is to "build structures and facilities for the advancement of modern society." Mortenson is Minnesota's largest construction organization, and was ranked Minnesota's top Green Contractor by ENR. More than 80% of the company's work is for long-standing customers with projects ranging from less than \$1 million to more than \$300 million.

PCL CONSTRUCTION SERVICES, INC.

12200 Nicollet Avenue South
Burnsville, MN 55337
Tel: (952) 882-9600
Fax: (952) 882-9900
Email: jkjensvold@pcl.com
www.pcl.com
Established 1906
Total in MN Office: 250
Other Offices: Albuquerque, Anchorage, Atlanta, Bakersfield, Calgary (AB), Charlotte, Denver, Edmonton (AB), Fort McMurray (AB), Halifax (NS), Honolulu, Kelowna (BC), Las Vegas, Los Angeles, Nassau (Bahamas), Orlando, Ottawa (ON), Phoenix, Regina (SK), San Diego, Saskatoon (SK), Seattle, Tampa, Toronto (ON), Vail, Vancouver (BC), Winnipeg (MB), Yellowknife (NT)
Total in Other Offices: 8000
Contact: John Jensvold, (952) 882-2572

Company Principals

Don Fromme, Dist. Mgr.
Joe Carrieri, Oper. Mgr.
John Jensvold, Dir. Proj. Dev.
Heidi Wherland, Mgr. Finan./Admin.
Jeff Krick, Chief Est.
Dan Ilen, Dir. Des./Constr.

PCL is the eighth largest general contractor in North America, with 29 offices across the U.S., Canada and the Bahamas. The Minneapolis District of PCL was established in 1978, initially completing the construction of St. Paul Town Center and other projects for Oxford Development. We specialize in manufacturing, hospitality, casinos, retail, high tech, and office construction.

continued next column

Mystic Lake Entertainment Center, Prior Lake, MN; I.C. Uponor North American Headquarters, Apple Valley, MN; 3M Center, Maplewood, MN; Seagate Technology, Edina, MN; Turtle Creek Casino and Hotel, Williamsburg, MI; Nickelodeon Universe, Mall of America, Bloomington, MN

RETAIL CONSTRUCTION SERVICES, INC.

11343 39th Street North
Lake Elmo, MN 55042
Tel: (651) 704-9000
Fax: (651) 704-9100
Email: rcs@retailconstruction.com
www.retailconstruction.com
Established 1984
Total in MN: 42
Other Offices: Rockwall, TX;
Point Pleasant, NJ
Total Other Offices: 85+
Contact: Stephen M. Bachman,
(651) 704-9000 x701

Company Principals

Stephen M. Bachman, Owner/Pres.
George I. Middleton, Owner/VP
Gerald F. Kuntz - CFO/VP
Joni L. Fletty, VP
Garth Willis, VP Texas Office

Retail Construction Services, Inc. is a 24 year-old organization designed to meet the needs of the expanding retail market, with a minor emphasis on golf courses and financial services-related projects. Our projects range from freestanding buildings, to stores in strip centers, airports, hotels, casinos, and regional shopping malls throughout North America, Puerto Rico and the U.S. Virgin Islands.

TPC Avenel, Potomac, MD; Bebe at Royal Hawaiian Shopping Center, Oahu, HI; Guess at Miracle Mile, Las Vegas, NV; Williams-Sonoma, Thousand Oaks, CA; Best Buy Musical, Duluth, MN; Monmouth Community Bank, Neptune City, NJ

RJM CONSTRUCTION

5455 Highway 169
Plymouth, MN 55442
Tel: (763) 383-7600
Fax: (763) 383-7601
Email: kerik@rjmconstruction.com
www.rjmconstruction.com
Established 1997
Other MN Office: Downtown Minneapolis
(612) 904-1215
Total in MN Offices: 70
Contact: Keri Kindelspire, (763) 383-7600

continued next column

Company Principals

Robert Jossart, Pres.
Joseph Maddy, SVP
Brian Recker, VP

RJM provides construction solutions as part of a collaborative team for health care, tenant interiors, community centers, and corporate office clients. We are dedicated to understanding how the project impacts our clients' services and to providing a rewarding construction experience.

*Park Nicollet Clinic, Chanhassen, MN;
Andover YMCA/Community Center, Andover, MN; Carmichael Lynch Office, Minneapolis, MN; Buffalo Wild Wings Headquarters, Golden Valley, MN; Methodist Hospital, St. Louis Park, MN; Rogers Ice Arena, Rogers, MN*

ROCHON CORPORATION

3650 Annapolis Lane North #101
Plymouth, MN 55447
Tel: (763) 559-9393
Fax: (763) 559-8101
Email: luanns@rochoncorp.com
www.rochoncorp.com
Established 1985
Total in MN: 26
Contact: Luann Sawochka, (763) 235-3819

Company Principals

Jerry Braton, CEO
Scott Larkin, Pres.
Jeff Welman, EVP
Luann Sawochka, Mktg. Dir./NBO

Rochon Corporation is a general contractor specializing in commercial buildings such as offices, industrial, educational, religious and retail. Founded in 1985 on the principles of commitment, flexibility and reliability, we pledge to work as a partner with our clients and communities.

*ATK Office Building, Eden Prairie, MN;
Shops at Plymouth, Plymouth, MN; The Village at Mendota Heights, MN; The Hindu Temple of Maple Grove, MN; The Depot Office Building, Minneapolis, MN;
Minnesota Mini Storages, Several Locations, MN*

RYAN COMPANIES US, INC.

50 South 10th Street, Suite 300
 Minneapolis, MN 55419
 Tel: (612) 492-4000
 Fax: (612) 492-3000
 www.ryancompanies.com
 Established 1938
 Total in MN Office: 510
 Other Offices: Cedar Rapids, Chicago, Davenport, Des Moines, Phoenix, San Diego, Tampa
 Total in Other Offices: 395
 Contact: Paul Kieffer, Dir. Proj. Dev. MN (612) 492-4000

Company Principals

Jim Ryan, CEO
 Pat Ryan, Pres.
 Tim Gray, CFO
 Collin Barr, Pres. MN Region
 Mike Cairl, EVP
 Bob Cutshall, VP Corp. Constr.

Ryan Companies US Inc., a national-recognized developer, design-builder, and real estate manager, has specialized in full-integrated solutions for more than 70 years. Ryan builds lasting relationships with a project delivery model based on full-service customized solutions and total collaboration – pairing the customer's needs and expectations with the talents of a team of developers, financiers, architects, engineers, constructors and property managers.

Two MarketPointe, Bloomington, MN; Cobblestone Lake, Apple Valley, MN; W Minneapolis (Hotel) in The Foshay, Minneapolis, MN; US Bank Data Center, Olathe, KS; Target Food Distribution Center, Lake City, FL; The Westin Edina Galleria Hotel and Residences, Edina, MN

SHAW CONSTRUCTION INC.

7685 Corporate Way
 Eden Prairie, MN 55344
 Tel: (952) 937-8214
 Fax: (952) 934-9433
 Email: jshaw@shawconstruct.com
 www.shawconstruct.com
 Established 1977
 Total in MN: 8
 Contact: John N. Shaw (Jack), (952) 937-8214

Company Principals

John N. Shaw (Jack), Pres.
 Earl Gebauer, VP Constr.
 James Swedenborg, CFO

continued next column

Shaw Construction, Inc. is a design/build general contractor successfully providing: new construction, additions, tenant improvements and unique construction within the commercial, light industrial, manufacturing and retail construction markets. Through its construction services and products, Shaw Construction, Inc. has developed long-lasting relationships with owners, developers, architects and engineers throughout the Upper Midwest.

Platinum Bank, Oakdale, MN; Wings Financial Credit Union, Eagan, MN; BCS Incorporated, Waconia, MN; Priscilla of Boston, Edina, MN; G.E. Wind Turbine Improvements, Sioux Falls, SD; St. Paul Lutheran School K-8th Grades, Perham, MN

SHAW-LUNDQUIST ASSOCIATES, INC.

2757 West Service Road
 St. Paul, MN 55121-1230
 Tel: (651) 454-0670
 Fax: (651) 454-7982
 Email: info@shawlundquist.com
 www.shawlundquist.com
 Established 1974
 Total in MN: 64
 Other Offices: Las Vegas, Hudson (WI)
 Contact: Paul Nelson, (651) 234-8885

Company Principals

Fred Shaw, Pres.
 Hoyt Hsiao, VP
 Thomas J. Meyers, VP

Shaw-Lundquist is a leading general contractor in the Metro Area. They are also the largest, minority-owned contractor in the Midwest and are the largest, Asian-owned contractor in the nation. They provide general construction, construction management at risk, agency construction management, and design-build construction services, and are proven performers on large and complex projects. Started in 1974 by Fred Shaw, the company has grown to over \$80 million in revenues in fiscal 2007.

Trafton Science Center (expansion/renovations), Mankato, MN; Winnipeg Apartments, St. Paul, MN; MGM Mirage Casino and Hotel (entrance modifications), Las Vegas, NV; Valley Natural Foods Expansion, Apple Valley, MN; Embassy Suites Hotel, Brooklyn Center, MN; Jarvis Hall Science Wing, Menomonie, WI

JAMES STEELE CONSTRUCTION

1410 Sylvan Street
 St. Paul, MN 55117
 Tel: (651) 488-6755
 Fax: (651) 488-4787
 Email: jsc@jsteeleconstruction.com
 www.jamessteelconstruction.com
 Established 1949
 Total in MN Office: 50-75
 Contact: Richard Naughton (651) 488-6755, rjn@jsteeleconstruction.com

Company Principals

Richard Naughton, Pres.
 Sandy Naughton, Treas.
 Andrew Naughton, Sec.

James Steele Construction provides design/build, negotiated and competitively-bid commercial and high-end residential construction services for Minnesota and Wisconsin. JSC projects utilize the most current technology and trends in the industry, including "Green" or "sustainable Architecture." Full-time masonry, framing, and finish crews, headed by superintendent's with close to 200 combined years of experience enable James Steele to maintain unmatched in-house quality control. James Steele Construction is the recipient of numerous awards: Excellence in Masonry, "Green" or Sustainable Projects, T.O.P.S., Historical preservation, AIA (various), and Safety Awards.

Ramsey Washington Metro Watershed District (Governor's MN Great Award for Green Construction), Little Canada, MN; Hill Murray School (various projects), Maplewood, MN; Minnesota Vietnam Veterans Memorial, St. Paul, MN; Salvation Army, Various Twin Cities Locations; University of Minnesota (various projects), Various Campuses; Cretin-Derham Hall School (various projects), St. Paul, MN

VEIT

14000 Veit Place
 Rogers, MN 55374
 Tel: (763) 428-2242
 Fax: (763) 428-8348
 Email: cgeisler@veitusa.com
 www.veitusa.com
 Established 1928
 Other MN Offices: Rochester (507) 281-3867
 Duluth (218) 626-2242
 Total in MN Offices: 475
 Other Office: Milwaukee
 Contact: Chuck Geisler, (763) 428-9599

continued next column

Company Principals

Vaughn Veit, CEO
 Greg Boelke, Pres.
 Kevin Brenny, CFO
 Steve Hलगren, SVP
 Chuck Geisler, Dir. Sales/Mktg.

Founded in 1928, Veit provides services to general contractors, municipalities and private industry. Veit's Specialty Contracting Services include earthwork, demolition, utilities, foundation and industrial cleaning. Veit's waste management services include roll-off containers, transfer stations, and landfills and recycling for LEED projects.

Twins Ball Park, Minneapolis, MN; TCF University of Minnesota Football Stadium, Minneapolis, MN; Xcel Energy High Bridge Plant, St. Paul, MN; Marathon Ashland Petroleum, St. Paul Park, MN; City of St. Paul Utility Lining, St. Paul, MN; Met Center and St. Paul Civic Center Demolition, Twin Cities, MN

WATSON-FORSBERG CO.

6465 Wayzata Boulevard, Suite 110
 Minneapolis, MN 55426
 Tel: (952) 544-7761
 Fax: (952) 544-1826
 Email: cindyh@watson-forsberg.com
 www.watson-forsberg.com
 Established 1965
 Total in MN Office: 40
 Contact: Dale Forsberg, (952) 544-7761

Company Principals

Dale Forsberg, Pres.
 Mike Ashmore, VP
 Paul Kolias, VP
 David Forsberg, Sec./Treas.
 Donna Lucero, Controller
 Dave Carlson, Sr. Proj. Mgr.

Watson-Forsberg Co. builds: commercial, multi-family, retail, religious, educational, medical and industrial projects. New construction projects and renovation, ranging from \$10,000 to \$25,000,000 competitively-bid and negotiated. Watson-Forsberg constructed the environmentally responsible Erickson Headquarters and St. Joan of Arc. Projects recognized by the Committee on Urban Environment, AIA, Real Estate Journal, National Historic Trust and Minneapolis HPC

East Village Apartments, Minneapolis, MN; Hazelden Meditation Center, Center City, MN; Ripley Gardens Apartment and Historic Renovation, Minneapolis, MN; YMCA Additions and Remodels, Minneapolis and St. Paul, MN; Redstone Grill, Eden Prairie and Minnetonka, MN; The Seward Co-op, Minneapolis, MN

It takes a village to design,
engineer, and construct
a great building. So let's give
credit where credit is due.

Charles Hostler Student Recreation Center

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Location: Beirut, Lebanon
Client: American University of Beirut
Architect: VJAA
Principals: Vincent James, FAIA;
Jennifer Yoos, AIA; Nathan
Knutson, AIA
Project architect: Paul Yaggie, AIA
Project coordinator: Jay Lane
Project team: Lev Bereznycky;
Andrew Dull; Carl Gauley; Dzenita
Hadziomerovic; Bob Loken; Karen Lu;
James Moore, AIA; Donovan Nelson;
Jennifer Pedtke; Steven Philippi; Casey
Renner; Mary Springer, AIA
Energy and comfort concept:
Transsolar Energietechnik GmbH
Structural engineer and associate
architect: Samir Khairallah & Partners
Mechanical/electrical engineer:
Barbanel Liban s.a.l.
Civil engineer: Wael A. Kayyaali
Cost consultant and quantity surveyor:
D.G. Jones & Partners
Landscape architect:
Hargreaves Associates
Landscape project team: Glenn Allen;
Karen Tamir; Yoon Cho
Glazing systems: Alumco
Precast concrete and post-tensioned
concrete: Soprel Liban
Steelwork: Abillama Chaya
Industrial Design
Wood sports flooring:
Ovetra Middle East
Millwork: Century Style
Track and field systems: Spec/Mondo
Photographer: Paul Crosby

Epic Systems Corporation

page 42

Location: Verona, Wisconsin
Client: Epic Systems Corporation
Photographer: George Heinrich

CAMPUS 1

Architect of record:
Cunningham Group Architecture, P.A.
Associate architect:
Zimmer Gunsul Frasca Partnership
Principals-in-charge: John W.
Cunningham, FAIA (Cunningham);
Patrick Gordon, AIA (ZGF)
Project designers:
John W. Cunningham, FAIA;
Jack Highwart, AIA (Cunningham);
Evelt Ruffcorn (ZGF); Jose Sama (ZGF)
Project manager:
Thomas Kylo, AIA (Cunningham)
Project architects: Thomas Kylo, AIA;
Michael Strand, AIA (Cunningham);
Bertha Martinez, AIA (ZGF)
Cunningham project team: Jan Dufault;
David Engleson, AIA; Chris Harkman;
Mark LeChevalier; Mark Lindell; Sarah
Marek; John Montgomery; Wade
Morgan; Patricia Nieto; Mark Rosberg,
AIA; Jerry Steffan; Bret Thompson;
Brian Tucker; Chrystie Wagner
ZGF project team: Teresa Bredehoeft;
John Barton; Linda Cohen; Dave Curtin;
Elaine Gagnon; Todd Stine
Structural engineer:
Magnusson Klemencic Associates
Mechanical engineer:
Affiliated Engineers, Inc.
Electrical engineer:
Affiliated Engineers, Inc.
Civil engineer:
Donofrio, Kottke & Associates, Inc.
Geothermal engineer:
Alderson Engineering, Inc.
Lighting designer: Schuler Shook, Inc.
Interior design:
H. Krueger & Associates; Cunningham
Group Architecture, P.A.; Zimmer
Gunsul Frasca Partnership
General contractor:
J.H. Findorff & Son Inc.
Landscape architect: JJR
Face brick: Belden Brick (J.H. Findorff
& Son Inc.)
Stone: Vetter Stone Co. (J.H. Findorff
& Son Inc.)
Cabinetwork: Wisconsin Built, Inc.
Flooring systems/materials:
Sergenians Floor Covering
Window systems: Harmon, Inc.
Architectural copper:
Interstate Roofing

Concrete work: Wingra Redi-Mix
(J.H. Findorff & Son Inc.)
Millwork: Wisconsin Built, Inc.
HVAC contractor: General Heating
& Air Conditioning, Inc.
Plumbing and fire-protection
contractor: Hooper Corporation
Electrical contractor:
Westphal & Company, Inc.
Acoustical ceilings: Austad & Son, Inc.
Painting: Hess Sweitzer
Elevators: Otis Elevator Company
Landscaping: The Bruce Company
Drywall systems: Wall-Tech, Inc.
Precast panels:
Northeast Wisconsin Precast

LEARNING CENTER

Architect:
Cunningham Group Architecture, P.A.
Principal-in-charge:
John W. Cunningham, FAIA
Project lead designer: Chad Clow, AIA
Project manager: Nina Broadhurst
Project architect: Michael Berg, AIA
Project team: Theresa Andrews;
Melissa Brewer; Amy Cheever; David
Engleson, AIA; Bradley Haroldson, AIA;
Faith Hodkiewicz; Eric Johanassen;
Jeff Kagermeier, AIA; Kristen Kelleher;
Michael Kuntz; Mark LeChevalier;
Jerry Lundberg; Jesús Márquez, Assoc.
AIA; Lani Priddy, AIA; Tony Solberg;
Jerry Steffan; Beauclarc Thomas,
Assoc. AIA; Anna Webber
Energy modeling: X-nth, Inc.
Structural engineer:
Reigstad & Associates, Inc.
Mechanical engineer: X-nth, Inc.
Electrical engineer: X-nth, Inc.
Plumbing engineer: X-nth, Inc.
Fire protection: X-nth, Inc.
Civil engineer:
Donofrio, Kottke & Associates, Inc.
Lighting designer: Auerbach Glasow
Theater consultant:
Auerbach Pollock Friedlander
Structured cabling:
The Durrant Group, Inc.
Code consultant: Ove Arup & Partners
Interior design:
Cunningham Group Architecture, P.A.
General contractor:
J.P. Cullen & Sons, Inc.
Landscape architect: JJR
Stone: J.P. Cullen & Sons, Inc.
Wood flooring: Anderson Ladd
Misc. metal: Architectural Metals, Inc.
Acoustic/wood ceilings:
Austad & Son, Inc.

Doors: Brickson Shaw/Kendell Door
Acoustical ceiling: Central Ceiling
Window blinds: Chicago Drapery
HVAC: General Heating & Air
Conditioning, Inc.
Drywall: Hallmark
Millwork: Hillcraft, Ltd.
Plumbing: Hooper Corporation;
Monona Plumbing & Fire
Carpet/resilient flooring:
Hughes Flooring, Inc.
Roofing: Interstate Roofing & WTP, Inc.
Concrete/masonry/steel:
J.P. Cullen & Sons, Inc.
Aluminum framing:
Klein Dickert Co., Inc.
Glazing/aluminum: Lake City Glass
Structural steel:
LeJeune Steel Company
Glulams: Lonsdale Construction, Inc.
Elevators: Otis Elevator Company
Painting: Schmelzer Paint Co. Inc.
Landscaping: The Bruce Company
Electrical: Westphal & Company, Inc.

Samsung Cancer Center

page 46

Location: Seoul, South Korea
Client: Samsung Medical Center
Architect: Ellerbe Becket, Inc.
Principal-in-charge: Paul Zugates, AIA
Design principal: Mic Johnson, AIA
Senior project designer:
Mike Kennedy, AIA
Project manager: Jeff Frush, AIA
Design team: Gregory Chang, AIA
(planning director); Les Chylinski
(project designer); Nancy Doyle, AIA
(senior medical planner); Barry
Graham, AIA (project manager/
concept design phase); Mike Kennedy,
AIA; Mike Kinnee (senior medical
planner); Ken LeDoux, AIA (senior
interior architect); Kyung Lee, AIA
(project architect); Jong Min Lee
(project architect); Jim Lewison
(senior interior designer); Jim Lohmann
(senior electrical engineering project
leader); Karim Khemakhem (interior
designer); Matt Mahoney (project
designer); Mike Shekner (senior
structural engineer); Mark Searls, AIA
(project designer); Jian Shen (project
designer); Steve Wernersbach
(senior mechanical engineer);
Bruce Wolff (architectural director);
Don Woodhall (medical equipment
planning director); Terri Zborowsky
(medical equipment planner)
Structural engineer: Ellerbe Becket, Inc.,
with Samoo Architects and Engineers

Mechanical engineer:
Ellerbe Becket, Inc., with Samoo
Architects and Engineers

Electrical engineer: Ellerbe Becket, Inc.,
with Samoo Architects and Engineers

Civil engineer:
Samoo Architects and Engineers

Lighting designer:
Samoo Architects and Engineers

Interior design: Ellerbe Becket, Inc.

Construction manager:
Samsung Construction Company

Landscape architect:
Samoo Architects and Engineers

Photographers: Seung Hoon Yum;
Samoo Architects (clinical spaces)

Embassy Medical Center

page 50

Location: Colombo, Sri Lanka

Client: Tariq Rauf, Silvermere
Hospitals Group Ltd.

Architect: Perkins+Will

Principal-in-charge: Chuck Knight, AIA

Project lead designer: Dave Koenen

Project manager: Sandy Christie, AIA

Project architects: Doug Pierce, AIA;
Dave Dimond, AIA

Project team: Rick Hintz, AIA,
medical planning: Alissa Kingsley;
Kalpana Kuttaiah, cultural liaison

Energy modeling:
Affiliated Engineers, Inc.

Structural engineer: LHB

Mechanical engineer:
Affiliated Engineers, Inc.

Electrical engineer:
Affiliated Engineers, Inc.

Civil engineer: LHB

Lighting designer: LAM Associates

Interior design: Perkins+Will

Construction manager:
Leighton Construction

Local project manager: LAN
Management Development Service

Landscape architect: LHB

Anaerobic digester modeling:
John Madole

Medical equipment planning: Strategic
Hospital Resources/Schiavello

Digital renderings: Perkins+Will

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Cities. Neighborhoods.
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we love, as seen through
a photographer's eye.

"Constant motion is the norm in skyways, so I was impressed by how many people stopped to view *Speaking of Home*. It seemed to build a connection between strangers; people would see others engaged with the photographs and know that they were having some of the same thoughts—memories of their own homes and families. The installation fostered a shared experience in a public space."

—Photographer George Heinrich



Speaking of Home, by artist Nancy Ann Coyne in association with Twin Cities-based Forecast Public Art, turned a Minneapolis skyway into a light-box art gallery. The installation tells the stories of 23 immigrants through large portraits and family photographs and accompanying text panels. It runs through October 31, 2008.