



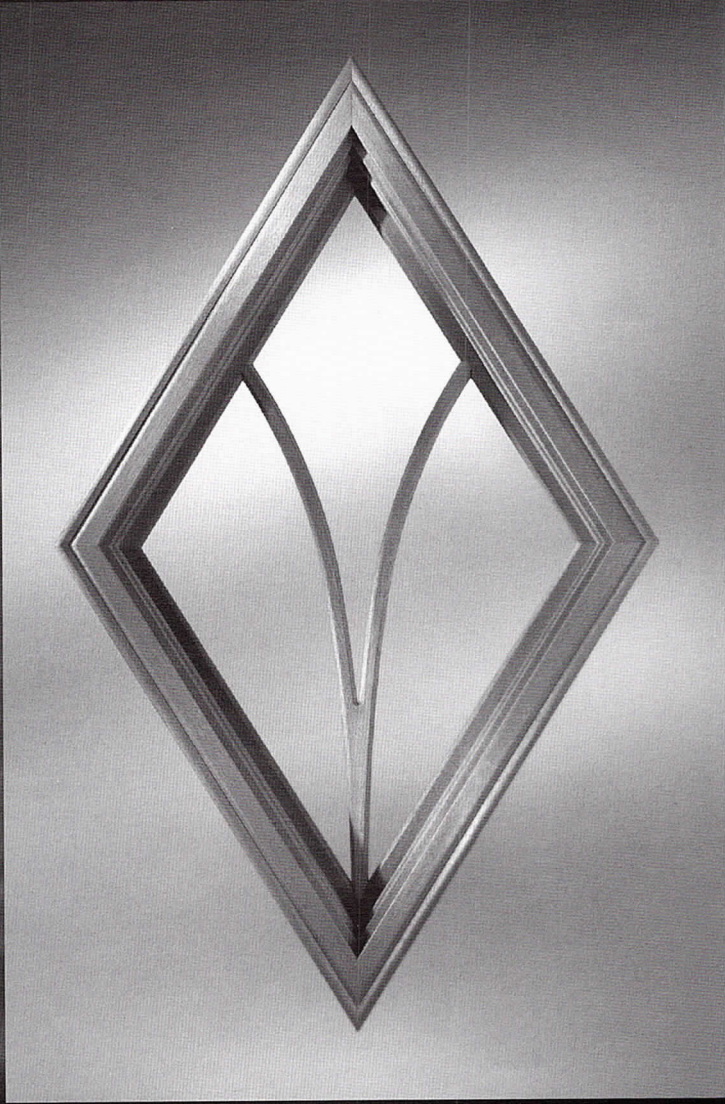
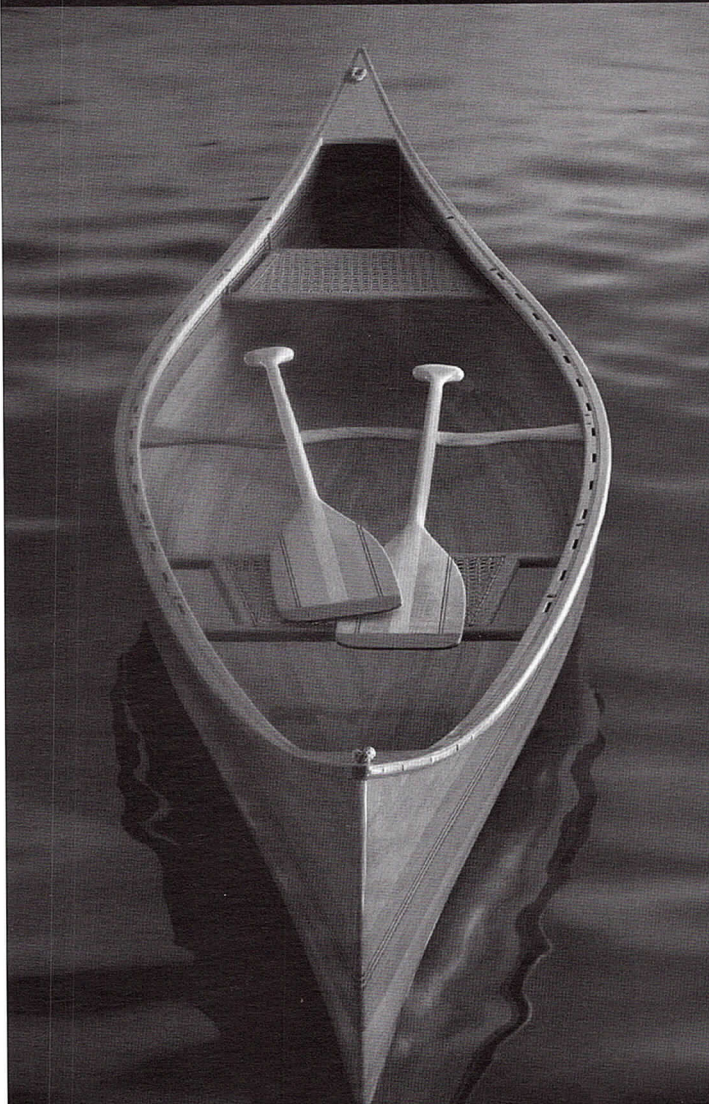
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AIA Chicago



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**new for 2005: our PIAs have become Knowledge Communities, following the nomenclature adopted by national AIA. Check out the latest from the national KCs at www.aia.org.*

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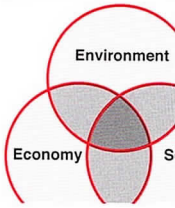
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■ Young Architects Networking Happy Hour

Tues., March 1, 5:30 – 7:30 p.m.
 Monk's Pub, 205 W. Lake St.
 Sponsor: Young Architects Forum

Come to network and meet other young architectural professionals. We'll talk about studying for the ARE, community service projects, charrettes and design competitions, tours of firms and buildings, and other events around town. Learn about our plans, get involved with community service projects, or just come by to chat. Questions? Contact Jeff Missad at jeffm@mca-architecture.com.

■ Introduction to Intern Development Program

Wed., March 2, 6 p.m.
 Merchandise Mart Conference Center
 350 N. Orleans St.
 Sponsor: Young Architects Forum
 Cost: Free for AIA members
 \$5 non-members



Whether you are presently enrolled in the Intern Development Program or should be, this program is for you. IDP is an essential step in the licensing process and must be completed before taking the ARE. Are you getting the maximum benefit from your IDP time? Learn everything you need to know from Robert Rosenfeld, AIA, director of council record services at NCARB, and Frank Heitzman, AIA (Heitzman Architects, Oak Park), IDP coordinator for AIA Chicago and AIA Northeast Illinois. 1 LU

Professional Development Conference

Thurs., March 3 and Fri., March 4

Get ready for the Professional Development Conference on March 3 and 4! This year's conference will again offer members an opportunity to brush up on the basics and learn something new. What should architects know to work better with lighting consultants, landscape architects and HVAC engineers? What's the latest on "How to Understand and Use the B141 Contract" and on construction documents and the standard of care?

Communication skills will be addressed in sessions on public relations and marketing and on architectural drawing. A keynote address will be given at lunch by Andrew Wagner, senior editor of *Dwell*, discussing what's going on in residential design and how his magazine addresses both design professionals and the public. Register through your conference brochure or online at www.aiachicago.org. See you there.



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Affordable Chicago: Housing Plan 2004-2008



Wed., March 9, 12:00 noon
AIA Chicago
Sponsors: Planning and Urban Affairs and Housing

Kevin Jackson, executive director, Chicago Rehab Network (CRN), will present a recent study of housing built between 1998 and 2003, suggesting policies and resources necessary to make Chicago an affordable place for current and future residents. CRN has been advocating for affordable housing and development without displacement for over 25 years. 1 LU/HSW

Birds and Buildings: Creating a Safer Environment



Fri., March 11
8 a.m. to 5 p.m.
Hermann Union Building at IIT
3241 S. Federal St.

This event will be the first-ever public conference to address the building design features that are associated with the deaths of almost one billion birds each year in the United States. Sponsors are IIT; UIC; AIA Chicago; and BuildingGreen, Inc. Co-sponsors include Bird Conservation Network; Wild Bird Feeding Industry; and Audubon Society. Cost: \$95; (\$25/student). For more information and to register, visit www.birdsandbuildings.org. 7.5 LU/HSW

Cob and Bale: Earth and Straw as Building Materials

Tues., March 15, 5:30 p.m.; AIA Chicago
Sponsor: Environment

Cob: clay-like lumps of soil, sand and straw that is sculpted into walls and arches. Straw bale: leftover parts of wheat, oats, and barley that are baled and stacked into

walls, then covered with stucco. These building materials have proven over generations to be highly durable and very sustainable. Anupama Mohanram, Assoc. AIA, of Buildsoft Graphics Inc, will give us her story of participating in the hands-on construction of a part-cob and part-straw bale outdoor kitchen in Quilcene, WA.

Design Exposed: Farr Associates



Thurs., March 17, 6 p.m.
53 W. Jackson Blvd., #1661
Sponsor: Design

Contemporary design practices and technologies will be explored through an office tour and lecture by Kevin Pierce, AIA. He will discuss his firm's design philosophy and its LEED-certified buildings in Chicago. Limited to 35 participants. 1 LU/HSW

High-Rise Fire and Life Safety



Thurs., March 24
8 a.m. to 3 p.m.
Sears Tower Conference Center
233 S. Wacker Dr.
Sponsor: Chicago Committee on High-Rise Buildings
Co-Sponsor: Technical Issues

Speakers include: Dr. Guylène Proulx, National Research Council of Canada; Richard Bukowski, Building and Fire Research Laboratories; Gerald Johnson, AIA, Fujikawa Johnson Gobel; Carl Baldassarra, P.E., Schirmer Engineering. Cost: \$125 for members of CCHRB and AIA Chicago; \$175 for nonmembers. Questions: contact Kim Clawson, AIA at 312/453-7615 or kclawson@voa.com. Register at www.cchrb.org. 6 LU/HSW



Sign Me Up!

- 3/2 Introduction to Intern Development Program
- 3/3 – Professional Development
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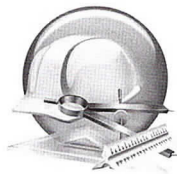
Changing Your World



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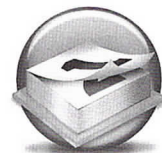
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Sustainability. It is a word that is used quite frequently in our professional dialogue currently, and it has far reaching and noble connotations. Some

would argue that positive development within our existing urban cores is central to sound sustainable principles. Providing for density in urban centers where we live and work with links to existing infrastructure, transit, open space and amenities will help to limit our continued appetite for our natural landscape and resources.

The AIA Chicago executive committee met with Chicago Department of Planning Commissioner Denise M. Casalino recently. With the commissioner's visit, we heard the Daley administration's take on the city's architecture and planning. Interestingly but not surprisingly, issues at the forefront of our public leader's minds deal with positive urban development.

Three themes shook out from Casalino's talk. First, the need to attract retailers to the communities that are underserved in this arena particularly on the south and west sides is an important initiative. She also wants the developers and designers of retail establishments, particularly big box retailers, to produce sustainable and better-looking stores in neighborhoods. This is a challenge and requires walking a fine line between encouraging more responsible design and not driving these retailers away in the process.

Second, she wants to protect Planned Manufacturing Districts (PMDs) and create more of them—two aims that often conflict with and are often at odds with the growing trend toward residential uses near PMDs. It is no secret that manufacturing jobs continue to leave this country at a rapid pace. But maintaining some level of manufacturing jobs within our cities is good urban policy. Keeping jobs in the city helps broaden the tax base, promotes a mix of uses and maintains jobs closer to our

urban infrastructure and residents. Physical design of manufacturing facilities need not be a deterrent and great examples exist within the city.

Third, and speaking of residential, Casalino also wants to find a way to put a stop to the poorly designed, lowest common denominator architecture that has been infesting neighborhoods for the past few years. This is also a difficult subject as good design is viewed by some as subjective, and the role of the city in "policing" the work of our fellow practitioners, developers and builders is much debated. All of us know numerous examples of residential architecture at all scales that have not contributed positively to the built environment. Of course, the influx of new residents into the city is positive. But must we impose bad design on our city in the process?

How can we as architects impact these issues beyond aspiring to higher goals as we practice within our firms? Members could show how designs could be improved without sacrificing a business's bottom line. Members could volunteer to help educate neighborhood organizations and concerned citizens on the elements of good design. That way the residents themselves—the ones most impacted—can also begin to properly challenge retailers to build better-looking stores.

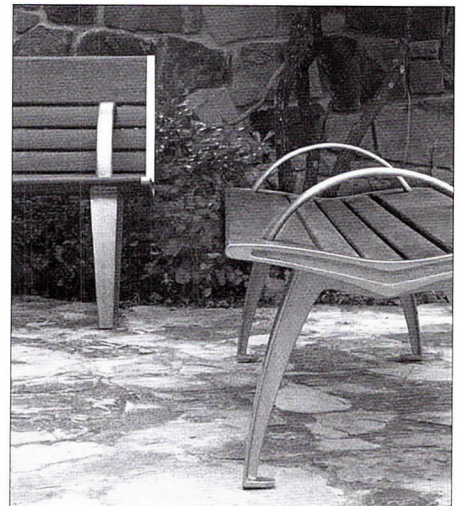
We can help publicize the value of creating and protecting PMDs as a way to keep jobs and a properly structured tax base within the city. Industry might well have been chased off Goose Island by residential developers were it not for such protections. Instead, the area flourishes with industrial uses and is home to thousands of jobs. The chapter can explain that it makes good urban planning sense to have industry within reach of affordable public transportation, as is often the case in city PMDs. Instead of sitting by and letting manufacturing leak out of the city, the city is using zoning, among other tools, in an attempt to help maintain what we have. We should join in promoting these sound policies.

With regards to the poor residential design, as architects and designers we'd do well to vigorously police that issue. Should we draw attention to bad examples? Perhaps more appropriate is a continued focus on recognition and publicizing positive residential design. Ultimately it is the public and the consumer that has the greatest impact on effecting change in this arena so educating residents is crucial.

Attention to the built environment has been a hallmark of the Daley administration. We need to do our part to contribute positively to that environment.

Thomas P Kerwin

Thomas Kerwin, AIA
President



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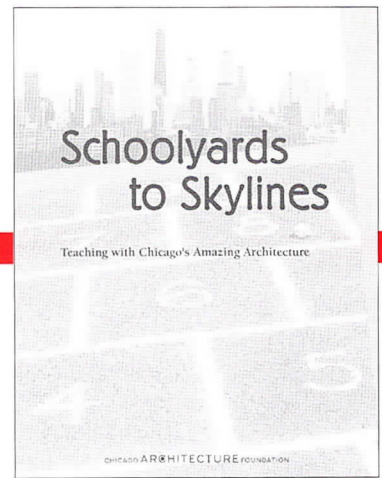
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Weese to Step Down This Year

Cynthia Weese, FAIA, dean of the school of architecture at Washington University in St. Louis, will step down June 30. She has served as dean since 1993. A practicing architect with more than three decades' experience, she is a founding principal of Weese Langley Weese and a former vice-president of the AIA. Weese will return to Chicago and continue her practice in the firm which she and her husband founded and where her son is an associate.

AIA Chicago Architect to Receive 2005 AIA Thomas Jefferson Award for Public Architecture



Carol Ross Barney, FAIA is one of three architects to receive the 2005 Thomas Jefferson Award for Public Architecture. This year's award recipients will get their awards at the AIA 2005 convention and Design Exposition in May. Ross Barney received the award for private-sector architects. Ross Barney's projects are "all icons

on shoestring budgets," one nominator said, making her worthy of this award in the jury's eyes; her work has improved the city of Chicago and the state of Illinois. Designed by Ross Barney & Jankowski, the new Oklahoma City Federal Building demonstrates how complex security plans can be addressed creatively, according to the jury. It also noted that Ross Barney's office is one of the most demographically diverse firms in the country. "Ross Barney's architecture career demonstrates a strong sensitivity, care, and compassion for the public," the jury said. "Her projects not only listen and respond to users' needs, they also dignify users."

Annual Seminar Series for Residential Clients

AIA Chicago again this spring will sponsor "Working With An Architect," a series of free public seminars to help homeowners understand the design and construction process. The seminars are led by AIA Chicago members with residential practices. The two-hour seminars run March 2 through May 1 at city and suburban locations.

- March 2, 7 to 9 p.m., Woodson Regional Library, 9525 S. Halsted St., Chicago (co-sponsored with Historic Chicago Bungalow Association)
- March 3, 7 to 9 p.m., Sulzer Regional Library, 4455 N. Lincoln Ave., Chicago (co-sponsored with Historic Chicago Bungalow Association)
- March 8, 7 to 9 p.m., Riis Park, 6100 W. Fullerton Ave.

- March 10, 7 to 9 p.m., Glenview Village Hall, 1225 Waukegan Rd., Glenview
- March 12, 10 a.m. to noon, Oak Park Public Library, 834 Lake St., Oak Park
- March 19, 10 a.m. to noon, Highland Park Public Library, 494 Laurel Ave., Highland Park
- March 23, 5 to 7 p.m., Chicago Architecture Foundation – Lecture Hall, 224 S. Michigan Ave., Chicago
- April 30, **Time to be determined**, Historic Chicago Bungalow Association Expo, Illinois Institute of Technology (IIT), Hermann Union Building, 3241 S. Federal St., Chicago

Topics include: what to look for when choosing an architect; what to expect during the construction phase; how to navigate zoning, code, and permit regulations; and how to avoid costly surprises. The seminars will be presented in cooperation with the historic Chicago Bungalow Association and will feature a segment on the City of Chicago's bungalow initiative. The series are generously co-sponsored by Anderson Windows and Doors and Therma-Tru Doors.

Chicago Program Among Recipients of AIA 2005 Institute Honors for Collaborative Achievement

The Chicago Architecture Foundation's *Schoolyards to Skylines* curriculum for K-8th grade was named one of the recipients of the 2005 Institute Honors for Collaborative Achievement. The award, to be presented in May in Las Vegas, recognizes and encourages distinguished achievements of allied professionals, clients, organizations, architect teams, knowledge communities, and others who had a beneficial influence on or advanced the architectural profession.



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Written by Jennifer Masengarb and Jean Kinsner, *Schoolyards to Skylines* offers an easy-to-use and comprehensive tool for educators and parents to bring the study of architecture and built environment into traditional studies of math, science and art. "It's the tool many teachers, architects and AIA chapters have been searching for to make architecture come alive for young people," the jury noted. "Get this tool out to the public, to home-schoolers."

Community Design Award Winners

Three AIA Chicago member firms were honored last month for design excellence with Driehaus Foundation Awards—the local community design Oscars. Endowed by investor Richard H. Driehaus, the annual award program for socially focused building projects is organized by Local Initiatives Support Corporation/Chicago (LISC).

The winners were Wheeler Kearns Architects, Landon Bone Baker Architects and Studio Gang Architects. The design jury was chaired by Thomas Beeby, FAIA while the entire event was hosted by Chicago Bears president and CEO, Ted

Phillips. Mayor Richard M. Daley spoke about his vision for city building at the presentation.

First-place winner Wheeler Kearns Architects designed the Southwest Women Working Together headquarters in Englewood, which includes counseling facilities, training rooms, meeting space and offices focused on an enclosed garden. Combining a renovated building with new construction, the building's facade features a strong combination of brick and custom curtain wall. Large windows and high ceilings create large, inviting interior spaces for women seeking assistance. Simple, modern handling of plans, proportions and finishes contribute to gracious interior and exterior spaces.

Landon Bone Baker Architects won second place for Archer Court Townhouses-Phase II located in China Town. The firm's first phase renovation of adjacent CHA mid-rises won Chicago Neighborhood Development awards and AIA Chicago Distinguished Building honors. The townhouses were quickly constructed with custom-colored and textured tilt-up concrete panels containing openings for pre-assembled metal-clad bay windows and standard windows. The 43 townhouses face a central green space that terminates in a park.

Third place was awarded to Studio Gang Architects, whose Chinese American Service League's multi-purpose community center is partially clad in titanium shingles. The 38,000-square-foot, 2-story building, named for Kam L. Liu, includes a south-facing, steel sunscreen that adds dynamic light play on a disciplined and evocative facade geometry. Numerous interior spaces including a single story day care, training kitchen, offices, and multi-story, multi-purpose room contributed to program activities increasing by 30 percent since the center opened, according to the center's director.

Mayor Daley spoke at the Chicago Neighborhood Development Awards. "The only way to rebuild the city is to rebuild souls," Mayor Daley told a group of more than 1,200 community builders attending the annual event.

Fresh from a city building conference in England, Daley stressed the similarity in problems cities in the United Kingdom and Chicago are facing. An unspoken indication that Chicago has had more success than the cities he just visited was punctuated with a passionate call for rebuilding "souls" through charitable groups and an insistence on educational improvements generated from multiple sources outside the government.



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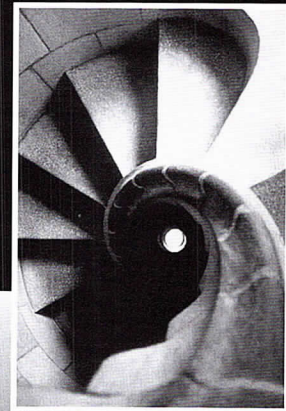
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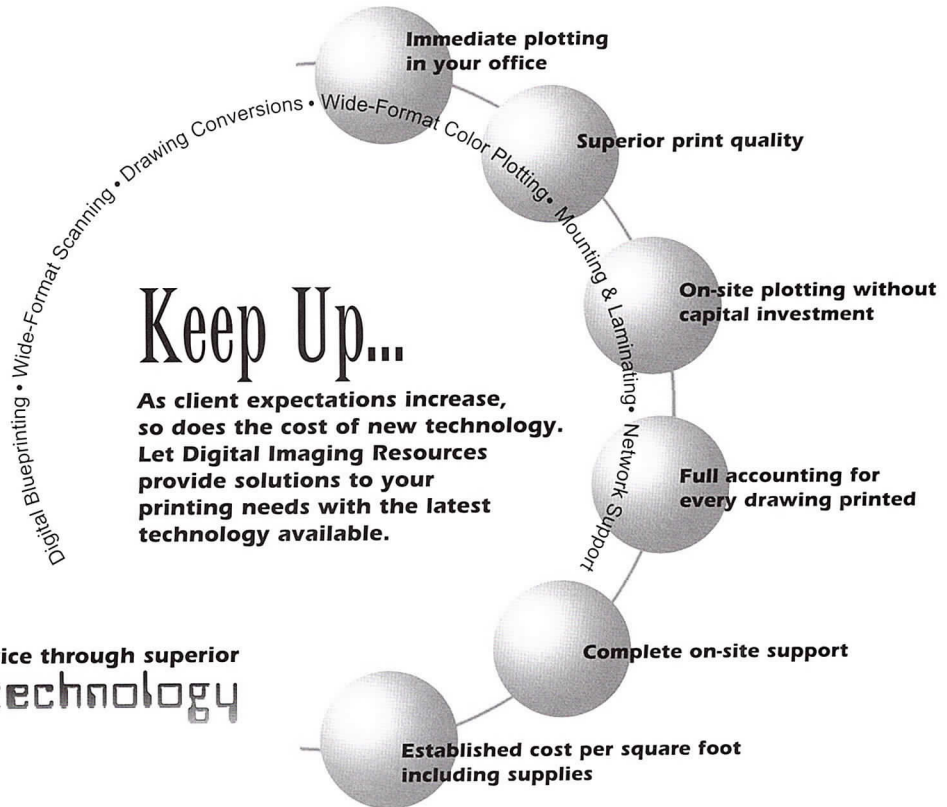
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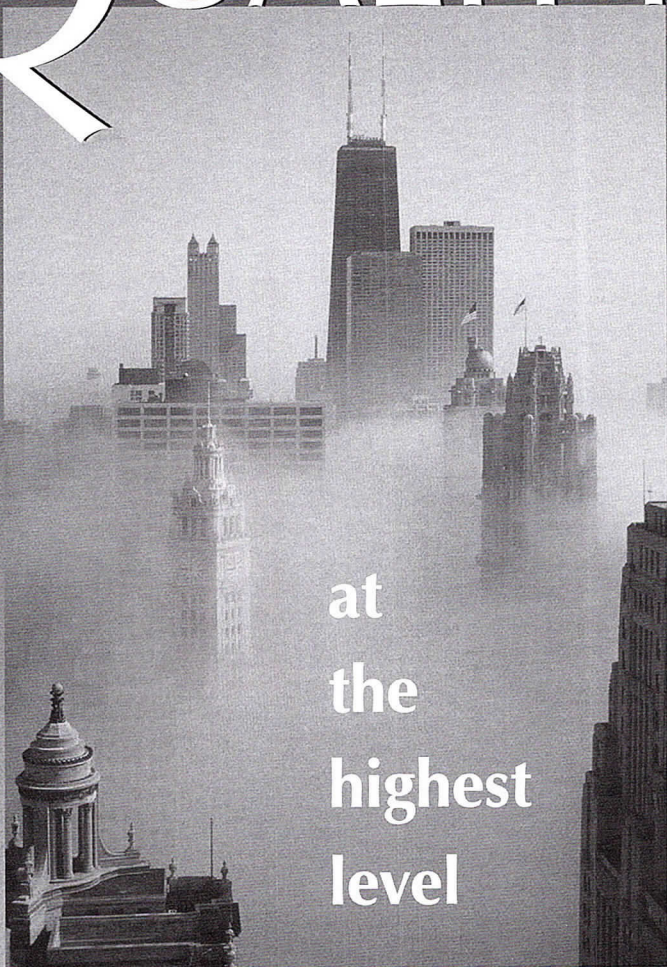


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Chicago-area 'Green' Single-family Homes

AIA Architects Push the Limits to Cut Energy Costs



Karina Wang

Photovoltaic panels on the roof produce electricity when the sun shines. These panels generate most of the house's electricity annually.

With more "green" products on the market it is easier than ever to construct a house that conserves supplies and energy.

By Mary Beth Klatt

Bill and Eleanor Revelle's Evanston home overlooks Lake Michigan, but you can't hear the waves crashing the sea wall or feel the cool wind seeping into the house. The home is sound-proof and airtight because it was built using environmentally-friendly construction and materials.

The Revelles worked with Ellen Galland, AIA, of Rockwell Associates on their previous home. So when the couple bought and demolished a 1950s-era ranch home on Evanston's lakefront in 2002, they decided to work with Galland again. While there's a case to be made that tearing down a house is wasteful, the Revelles felt that current building practices can be more energy-efficient. "We did a lot of research on the Internet; that was very helpful," says Galland.

Using tips and resources gleaned from Web sites, the trio have designed a house that entices visitors. The 4,000-square-foot Revelle house has a series of passive solar collectors along the driveway; they provide most of the heating for the home's hot water, some of the radiant-floor heating, and all of the heat for the exercise pool. Photovoltaic slates on the three south-facing roofs provide about 70 percent of the annual electrical consumption. The panels produce between 4 to 32 kilowatt hours a day, the couple sells excess energy to Commonwealth Edison. A 1,000-gallon

cistern collects rainwater from the roof to water the garden. Inside, tight construction reigns with California corners, a technique that Bill Revelle learned about on a Web site. California corners let you use less wood in each corner of the house creating more space for insulation. The floor is crafted from bamboo, a renewable product that can be harvested in five years. Compact fluorescent light is most prevalent and reduces energy cost by 30 percent. Triple-glazed windows insulate from winter winds off the lake. Australian dual-flush toilets reduce water use by more than 5,000 gallons a year. In the living room, an advanced-combustion fireplace draws outside air in for combustion without losing heat from the room. (Most fireplaces pull warm indoor air up the chimney).

Other AIA Chicago architects are also employing an array of strategies to build "green" single-family homes in the Metropolitan Chicago area. With more "green" products on the market it is easier than ever to construct a house that conserves supplies and energy. West of the Revelle abode, but also in Evanston, is the Gray home, another green single-family residence. Here Nate Kipnis, AIA designed a two-story solar addition and renovated the interior. The twist here is that Kipnis transformed the existing house, an 1883 Victorian gingerbread listed as an historic home in Evanston. All changes had to be submitted to the Evanston Preservation Committee for approval. The Grays were able to utilize the Illinois preservation tax freeze to save money. "Blending historic concerns with the solar and green aspects was a

real challenge,” he says. Kipnis used a lot of passive solar, black-slate floors which when the sun hits them, warms the house. A forced-air system pulls warm air under the floors, and any hot air goes to the basement, where there’s a high-efficiency gas furnace. He used high-density rockwool (see sidebar) instead of standard fiber bat to insulate the home and cellulose for smaller spaces where the rockwool wouldn’t fit. Kipnis also used Pau Lope, a South American wood, for the decks, which are usually crafted from cedar. More expensive than cedar, Pau Lope lasts longer and doesn’t have to be replaced as often as cedar. There are solar panels mounted on the roof that provide hot water and heated water for the radiant-floor heating system.

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Nate Kipnis

Nate Kipnis, AIA used tinted plastic found at auto-supply stores to create the colored windows, which complement the vintage stained glass windows elsewhere in this historic Evanston house.



Nate Kipnis

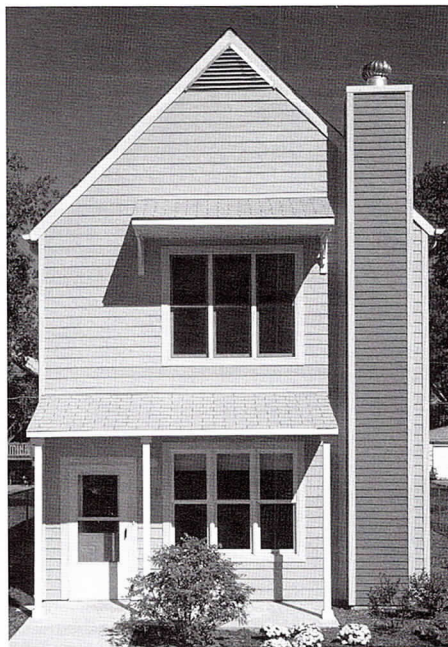
**Chicago-area 'Green'
Single-family Homes**
Continued from page 13

The house is also wired for a future photovoltaic system. Like Galland, Kipnis also used bamboo flooring through the residence. "It's not over the top 'green,'" says Kipnis. "We just incorporated green elements."

Further south in Chicago's Englewood neighborhood is the green single-family house that William Worn, AIA, of Worn Jerabek Architects designed for the city's Green Homes project.

Worn focused on energy efficiency and maintaining high indoor-air quality, a common problem with conventional building materials. He specializes in architecture for people with disabilities, particularly those with chemical sensitivities. "People with chemical sensitivities are the largest, fastest growing class of people," he says. He attempted to eliminate any materials with volatile organic compounds (VOC), which can be found in caulking, paints, adhesives, sealants, sprays, and kitchen cabinets. Worn also had to figure out how to bring in fresh air each month without losing heated air during the winter. His solution? A wind tower, an old technology. The tower resembles a chimney with vents.

The 1,400-square-foot, two-story home has three bedrooms, two baths, and no basement. While Worn intended to construct a \$125,000 home, he found it difficult to determine actual cost because numerous materials and appliances,

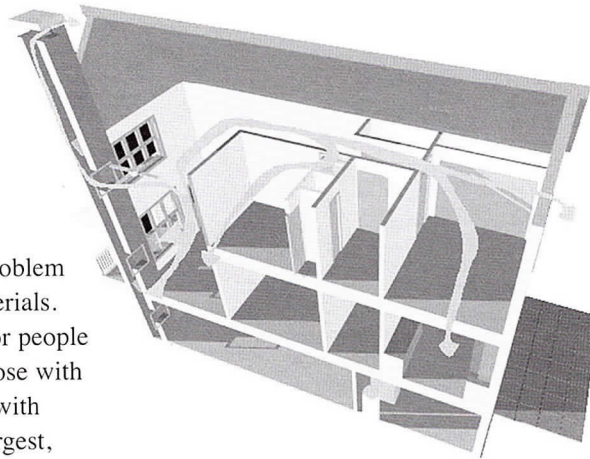


An air-chimney in this house designed by Bill Worn, AIA allows hot air to escape in the summer, and encourages warm air circulation in winter. Since the home is well ventilated, it requires cooling only on the hottest days.

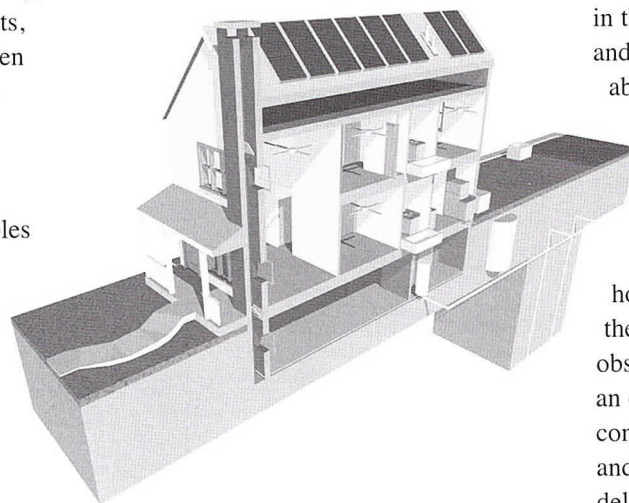
including a water-saving toilet, were donated. He also had a strict contract. No smoking was allowed on the construction site; the contractor had to vacuum out the wall cavities before installing insulation. The site and any on-site supplies had to be covered with a tarp to protect it from rain and moisture. Worn wanted to prohibit all PVC piping, but the contractor wasn't able to comply. So there's only one PVC pipe in the waste stack for the toilet. The rest of the house's pipe is cast iron, which is more expensive than PVC, but more environmentally friendly since it can be recycled easily.

At the time the house was constructed in 2000-2001, it was hard to find some environmentally-friendly products, but now it would be easier to find some products such as low VOC paints, adhesives and sealants, he says.

While the Revelles have been living in their new home since 2004, Galland and Revelle continue to learn more about energy-saving tools and materials. Revelle logs the house's daily energy consumption and output, and updates a Web site devoted to the house (www.revelle.net/lakeside/house.html). "We achieved most of the Revelles' design objectives," observed Galland. "It's succeeding as an educational tool. The Revelles are continuing to improve energy production and efficiency and it's a never-ending delight to live in." ■



Images courtesy of Worn Jerabek





aia chicago

2005 design excellence awards

call for entries

distinguished building award

interior architecture award

divine detail award

entries and eligibility

Entries are limited to work by firms within the Chicago metropolitan area, defined as the counties of Cook, DuPage, Kane, Lake, McHenry, and Will in Illinois, and Lake and Porter counties in Indiana. Entries from multi-office firms are limited to work designed in the local office. Projects must be designed by registered architects.

The intent of the Design Excellence Awards of AIA Chicago (Distinguished Building Award, Interior Architecture Award, Divine Detail Award) is to honor those firms and individuals responsible for the submitted designs. AIA Chicago has always honored other team members as part of the awards process. However, it is critical to the integrity of the awards that the primary actor receive the primary credit. Entering the competition is a representation that the submitting firm is responsible for the submitted design. This must be the case or the entry is not eligible for consideration.

In situations where project responsibilities are shared, the following are examples of entities that are eligible for consideration:

The architect of a building or an interior is eligible if by contract the architect has primary or sole responsibility for Schematic Design and Design Development. In a large project with a number of components, the architect may submit the portion of the project for which the architect had primary or sole responsibility. For example, the architect responsible for the shell and core of the building may submit photographs of the exterior and core elements of the interior. Photographs of other portions of the project should not be included.

In the event a firm does not meet these criteria but believes it should still be eligible for the awards program, an appeal may be made to AIA Chicago, citing any special circumstances. AIA Chicago reserves the right to review eligibility before and after the deliberations of the jury. The entry fee for a disqualified project will be fully refunded.

Projects must have been completed between January 1, 2002, and May 1, 2005, to be eligible for the awards.

Firms are encouraged to re-enter projects previously submitted if they did not win an award. Projects that have received an AIA Chicago award in a previous year are not eligible for the 2005 awards in the same category.

Your Entry Form must be accompanied by the required entry fee. Upon receipt of the form and fee, instructions for submittals will be sent to you, along with a registration number for each entry.

Questions? Contact Joan Pomaranc, Program Director, at 312/670-7770 or pomarancj@aiachicago.org.

interior architecture award

purpose

To recognize excellence in the unique discipline of interior architecture, defined for these awards as the design of space within a building envelope that includes finishes, lighting and furnishings.

deadlines

Intent to enter: April 6, 2005
Completed submission: May 19, 2005

fees

AIA Chicago members: \$145
Non-members: \$195

categories

The entrant will select a category for the project: commercial/hospitality, commercial/office, commercial/retail, commercial/showroom, historic preservation, institutional, residential, or miscellaneous. These categories are used to sort entries for jury deliberation and for presentation on the chapter Web site; they are not used to determine the selection of winning projects.

submissions

Submissions will include building data, an architect's statement of no more than 150 words, and no more than ten images. Details will be included in the submission guidelines sent to you after receipt of your Intent to Enter.

jury

A jury of distinguished professionals from other cities will be selected.

distinguished

purpose
To recognize significant achievement

deadlines
Intent to enter: Apr
Completed submission: May

fees
AIA Chicago members: \$14
Non-members: \$19

categories
The entrant will select a category: residential, or miscellaneous. The institutional, residential, or miscellaneous on the chapter Web site; they are

submissions
Submissions will include building Details will be included in the sub

jury
A jury of distinguished profession

divine detail

purpose
To recognize an instance in which relationship between architecture the detail is found through the use

deadlines
Intent to enter: Apr
Completed submission: May

fees
AIA Chicago members: \$90
Non-members: \$13

submissions
Submissions will include project Details will be included in the sub

jury
A jury of distinguished local profes

please note

- entry fees are not refunded
- submissions will not be returned

participation

You are invited to participate in the annual Design Excellence Awards program of AIA Chicago. The Design Excellence Awards recognize the best contemporary architecture produced by Chicago area firms, within the Chicago area or elsewhere. This year's categories for entries are: Distinguished Building, Interior Architecture, and Divine Detail.*

* The Divine Detail Award, the Sustainable Design Award introduced in 2004, and a new urban design category (look for it in 2006), are featured in alternate years.

recognition

The Design Excellence Awards will be presented at Designight 2005 on October 21 at Navy Pier. Award certificates will be given to the architect, owner, and contractor for each project. Winning projects will be documented in a special edition of *Focus*. These projects will also be highlighted in an electronic exhibit of all competition submissions on the AIA Chicago Web site. AIA Chicago will also undertake a public relations campaign on behalf of the winners.

notification

The AIA Chicago office will notify winners immediately following the jury deliberations in June. No public announcement of any awards will be made prior to the awards presentation at Designight 2005.



AIA Chicago

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Rockwool “New” Old Insulation Material

By Mary Beth Klatt

Rockwool was popular in the early 20th century, according to Nate Kipnis, AIA but it fell out of favor in the 1950s when fiberglass insulation, which is cheaper, was introduced. It has become trendy again as builders seek an insulation that conserves energy and resources. Rockwool does both. It's made from molten rock. What's more, the non-allergenic insulation can save hundreds of dollars annually in heating bills.

Rockwool is just as effective as the newspaper by-product, cellulose and it's easier to install, and less dusty. Kipnis has used rockwool to insulate Chicago-area homes, including the Gray residence in Evanston, a commercial office building in Evanston, and, more recently, one of the environmentally-friendly, affordable single-family homes in the city's Englewood neighborhood.

Most new houses in the Chicago area have drywall, a layer of plastic that acts as a vapor barrier, fiberglass batt insulation, framing with 2" by 4" supports spaced 16 inches apart, and an exterior sheathing finished with siding or brick. For one green single-family home, Kipnis took a different approach and backed drywall with a high-density rockwool insulation packed between 2" x 6" supports spaced 24 inches apart. He attached rigid polystyrene insulation on the outside of the sheathing, finishing the exterior with a cement-fiber board siding and Chicago common bricks, he says. There is no plastic layer.

The two-foot increments not only allowed him to create a thicker wall and pack in more insulation, but it minimized waste off-site, Kipnis says. The contractors were able to use four-foot wide plywood that didn't need to be cut.

The drywall is air-sealed to the framing with caulking. The rigid insulation keeps the temperature within the wall cavity above the point where condensation would occur, he says. Seven times more dense than fiberglass, the rockwool insulation makes the home more airtight. Moisture can travel in and out of the wall without condensing, making the home resistant to mold. The rockwool insulation should keep the house warm in the winter and cool during the summer because of the heavily insulated, permeable exterior walls, Kipnis says.

“This is a very low-cost technique for ensuring that the house has the proper indoor air quality.”

(My approach) was a little difficult for contractors to understand,” says Kipnis. “But the drywall doesn't crack and it should create less callbacks for the contractors.” Rockwool is more user-friendly to drywall because it doesn't allow moisture in.

Rockwool begins as molten rock and is spun into granules, which are loaded into a truck. The granules are transferred onto a hopper, mixed with water, and sprayed into a wall cavity. It's easier to install rockwool than cellulose, Kipnis notes. “You spray with less water so you can cover it up with gypsum board sooner.” It doesn't hold up the construction schedule as much as cellulose, which is sopping wet when it's sprayed onto the wall. “It takes days for it to dry,” Kipnis says. “Rockwool is just moist after it's sprayed and doesn't take as long to dry.”

One drawback is that rockwool must be installed by a trained professional while anyone can put up fiberglass insulation. It's also more expensive (about \$1.50 per square foot compared to about 75 cents per square foot for regular insulation). However, rockwool does a better job of filling the wall cavity than fiberglass batt insulation, removing all air space in a wall; that's difficult to do with standard insulation. Rockwool can be easily sprayed into nooks and crannies, while conventional insulation must be cut to fit around conduits, junction boxes, and framing in older houses.

The rockwool has made one green single-family home so airtight that Kipnis installed an air cyclor device to ensure the flow of fresh air. “This is a very low-cost technique for ensuring that the house has the proper indoor air quality,” he says.

Not only is rockwool (also known as mineral wool) handy for making residences airtight, the high-density insulation also reduces the amount of outdoor sound entering the home. The issue of sound is huge. With more homes being built close to the street, people don't want to be in the living room and hear cars outside.

Rockwool itself isn't non-allergenic, but the fact that it creates an airtight wall cavity where nothing can grow makes it attractive for anyone who suffers from allergies, whether it's flowers or animals. Ironically, as more building professionals have rediscovered rockwool, local supplies have become scarce. While Kipnis was able to get rockwool for the bungalow project from a Wabash, Ind., site, that source is no longer available, contractors now have to buy rockwool from a Texas site, making the product more expensive to ship. ■

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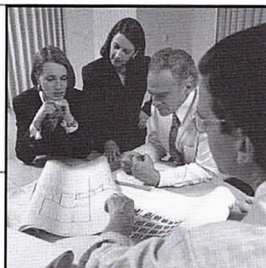
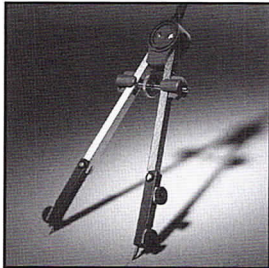
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PROBLEM SOLVED.™

Advancing the Development of Environmentally Sustainable Affordable Housing and Low-income Housing

By Thomas A. Gentry, AIA and
Ujjval K. Vyas, Professional Affiliate

Architects can play a role in changing the status quo by investigating more thoroughly the economic benefits of energy-efficient design.

Reducing the consumption of energy generated from fossil fuels is a mutual goal for environmentally sustainable housing and affordable and low-income housing. Striving for this goal, from the environmental point of view, reduces the transfer of carbon from the biosphere to the atmosphere while from the affordability point of view, it reduces the cost of heating, cooling and lighting. Unfortunately, conventional methods of defining and financing affordable and low-income housing—which differ for owner-occupied housing and rental housing—do not promote energy conservation.

Owner-occupied Housing

A house with low mortgage payments that is still expensive to heat and cool is an inferior housing solution that will become more so as energy costs increase. Generally, government guidelines for pricing affordable and low-income housing and the criteria used by financial institutions for qualifying buyers do not fully account for the tradeoffs associated with such options.

Angela Vick, Executive Director of Claretian Associates, an organization that builds energy-efficient affordable housing in South Chicago, states, “As a non-profit organization providing affordable housing, we believe affordability is not in the purchase but in the operation and up-keep of the home.” For example, in Chicago, the initial and continuing cost of living in

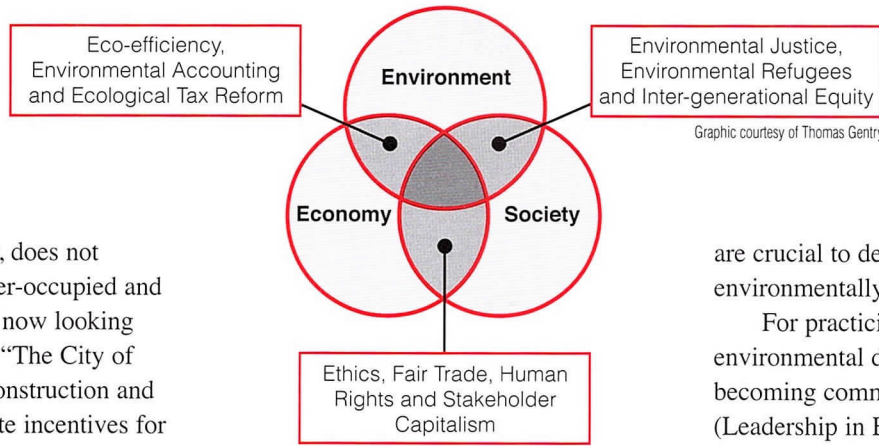
a wood-framed house with 2x6 studs and R-19 batt insulation is significantly less than the cost of living in a house with 2x4 studs and R-11 batt insulation. Over time, this disparity will only grow more significant. Similar opportunities to deploy energy-conscious techniques exist with radiant heating, heat recovery ventilators, tankless water heaters, passive solar heating, passive cooling and more.

Rental Housing

Currently, most of the funding for the construction of affordable and low-income multi-family rental housing in Chicago is from investors/developers, spurred by programs such as income tax credits facilitated by the Tax Reform Act of 1986. Investors/developers of rental housing are aware that prospective tenants assess a lower priority to the cost of utilities than to rent, location and amenities and therefore see little incentive to address the long-term benefits associated with energy issues. Improvements in design and construction that cause increased initial costs are unacceptable even if they offer long-term benefits for the owner, tenants and the environment. The provision of more energy-efficient housing by investors/ developers is unlikely to change under current conditions unless the cost of utilities begins to rise or additional incentives are put in place.

Non-traditional Methods of Defining and Financing

In redefining affordable and low-income housing in environmentally sustainable terms, the City of Chicago made significant progress with the adoption in 2001 of the Chicago Energy Conservation Code, which imposes higher environmental design standards for



Graphic courtesy of Thomas Gentry

Triple Bottom Line (TBL) financing bases project value on the environmental, social and economic impact it has on all company stakeholders—including shareholders, business partners, employees, customers and the community.

buildings, and importantly, does not differentiate between owner-occupied and rental housing. The city is now looking at taking the issue further. “The City of Chicago Department of Construction and Permits would like to create incentives for sustainable buildings,” says Chris Bushell, First Deputy Commissioner. “We are looking to both expedite green permits and create an alternative code compliance path. The alternative compliance path would address long-standing code barriers in Chicago for those who want to invest in high-performance, sustainable buildings.”

At the heart of methods to reform financing for environmentally sustainable housing is the Triple Bottom Line (TBL), a framework for measuring corporate performance in economic, social and environmental terms. The Homeowners Energy Conservation Loan Program offered by Chicago-based ShoreBank is a fine example of TBL financing. The program provides funding for home improvements that result in greater energy efficiency.

Architects’ Role

More than ever, students and practitioners are bringing environmental concerns to the forefront of architectural design and discussion. However, the design of affordable and low-cost housing remains an area that is typically excluded from school curricula or the design work done by most architectural firms. This is particularly troubling since the design requirements for affordable and low-income housing require added creativity and thoughtfulness. In recognition of this, a few architecture programs throughout the nation, including the College of Architecture at the Illinois Institute of Technology (IIT), have initiated pilot design-build programs addressing this

complex arena. At IIT, the program brings together environmentally sustainable design, affordable and low-income housing, and the urban context to develop solutions for Chicago with applications to other urban areas. As IIT Assistant Professor Eva Kultermann points out, “Design-build projects stimulate and reinforce technical knowledge, connect theory to practice, and illustrate the overlap between subjects, all of which

Fundamental Principles for Re-thinking Environmental and Financing Issues in Affordable and Low-cost Housing

- Differentiating between owner-occupied housing and rental housing is meaningless when looking at heating, cooling and lighting for housing from an environmental point of view.
- Costs of ownership versus renting are irrelevant to the total cost of housing for many moderate and low-income households.
- Addressing these concerns requires a non-traditional definition for affordable and low-income housing as well as innovative methods of financing.

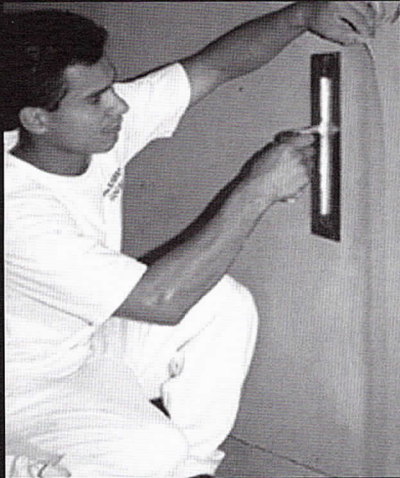
are crucial to developing affordable and environmentally responsible housing.”

For practicing architects, environmental design resources are becoming commonplace. The LEED (Leadership in Energy and Environmental Design) Green Building Rating System, developed by the U.S. Green Building Council, gives designers a practical framework for design development. Standards, such as those emerging from the ASTM (American Society of Testing and Materials) Subcommittee on Sustainability (E06.71), provide the technical insight required to make informed decisions. Even so, similar design resources for affordable and low-income housing are not commonplace and obligate practitioners to devote additional time to researching the options if they want to avoid the simplistic solution of stripping down the design to reconcile the bottom line.

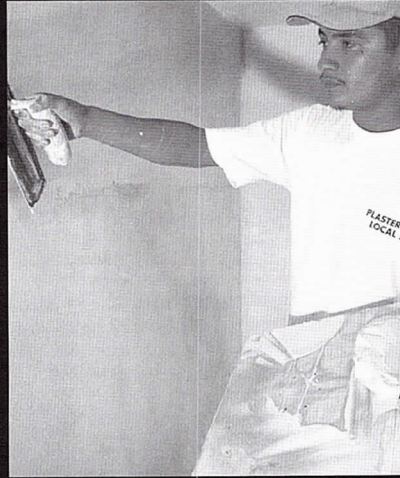
For environmentally sustainable housing, architects can play a role in changing the status quo by investigating more thoroughly the economic benefits of energy efficient design and educating owners about the advantages of non-traditional financing. At first this approach may yield only incremental improvements, but over time, the growing import of these improvements will provide further evidence of the city’s avowed mission to make Chicago “the most environmentally-friendly city in the world.” ■

Ujjval K. Vyas is an attorney with Foran Glennon Palandech & Ponzi in Chicago practicing in the area of construction law and specializing in risk management issues involved in sustainable design. He was formerly a professor of architectural history, theory and design. Thomas Gentry, AIA is an assistant professor in the College of Architecture at IIT where he teaches courses on environmentally sustainable planning and architecture.

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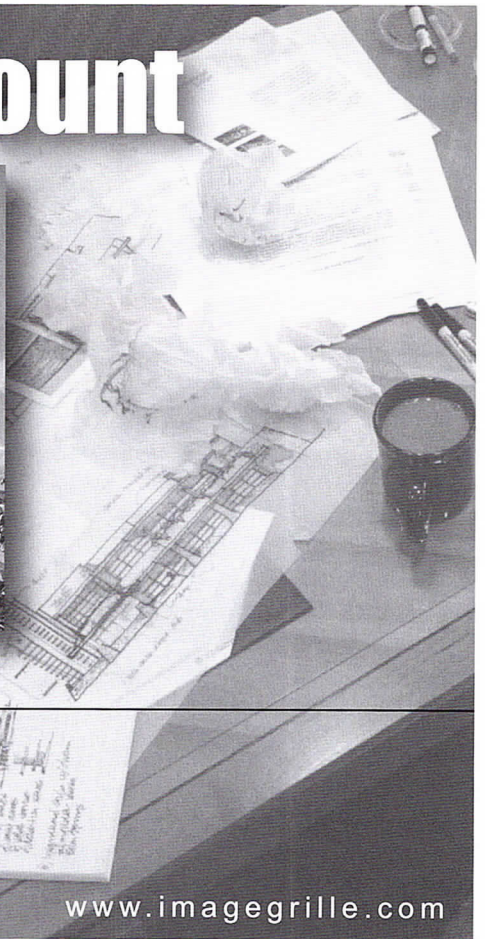


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PEOPLE/FIRMS

Lisa Adkins, AIA; Susan Harrington, AIA and **Susan Hickey, AIA** have been promoted to Associate at Gensler.

Edwin Chung, AIA has been promoted to Associate at Booth Hansen.

Emily Klingensmith is a principal at Schuler Shook.

Wissam G. Mansour has been named a project architect at Loeb Schlossman & Hackl; **J. Nicole Robinson** is the firm's marketing director.

Jerry McElvain, AIA and **Elva Rubio, Assoc. AIA** have been promoted to senior associate at Gensler.

Dale Swanberg is president of the Walsh Group's National Heavy/Civil Division.

James Zheng, AIA has been named Director of Asian Operations for Lohan Caprile Goettsch; **Patrick Loughran, AIA**, Associate Principal; **Randy Chapple, AIA**, Director of Specification and Material Research.

DLK is now **DLK Civic Design**.

Halvorson Kaye is **Halvorson and Partners**.

Environ HarleyEllis is now **HarleyEllis**.



McShane-Fleming Studios

Northwestern Memorial Hospital's Olson Pavilion



Margaret McCurry

CLIPPINGS

Douglas Garofalo, AIA was featured in a January 16 *Daily Herald* article about the "Chicago Architecture: Ten Visions" exhibit ending April 3 at the Art Institute of Chicago. **Stanley Tigerman, FAIA; Margaret McCurry, AIA** and **Jeanne Gang, AIA** were also mentioned in the story. McCurry was named one of 30 Deans of American Design by *Architectural Digest* in the January 2005 issue.

Thomas A. Heinz, AIA was mentioned in the Spring 2005 edition of *Homes & Lifestyles to the trade* in a story about a builder's efforts to bring a 1951 Frank Lloyd Wright masterpiece to life.

PROJECTS

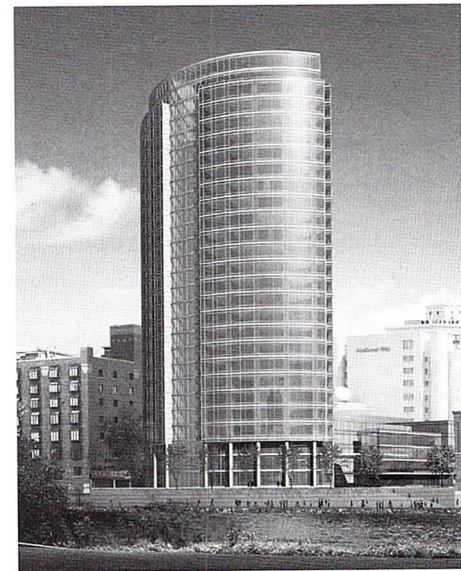
Anderson Mikos Architects Ltd. recently renovated Northwestern Memorial Hospital's Olson pavilion to create a 10-room ambulatory surgery center.

Construction of New Lenox School District 122's Spencer Road campus begins next month. Designed by **Legat Architects**, the \$35 million project includes a primary/intermediate school and a new kindergarten. Construction is expected to be finished in 2006.

A 24-story, 340-room Marriott Hotel designed by **Lohan Caprile Goettsch** will be constructed beginning this summer in downtown Grand Rapids, Mich. The hotel will open in 2007.

A new gateway to the GM Renaissance Center designed by **Skidmore, Owings & Merrill** has opened in Detroit. The new plaza, pavilion and lobby were created to visually connect the center to the city's downtown. The new sections replace the center's original fortress-like concrete berms along the street at the building's entrance.

Marriott Hotel



Photos at left, clockwise from upper left: Lisa Adkins, Susan Harrington, Emily Klingensmith, Elva Rubio, Jerry McElvain, Susan Hickey

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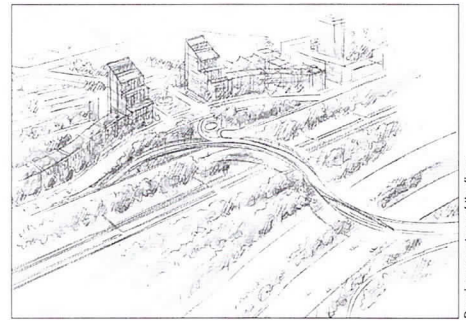
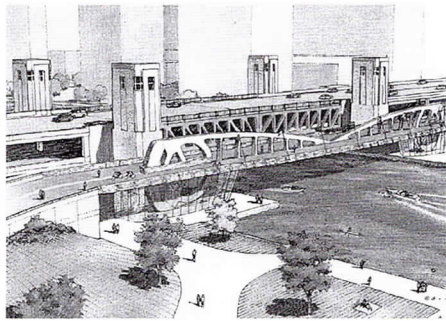
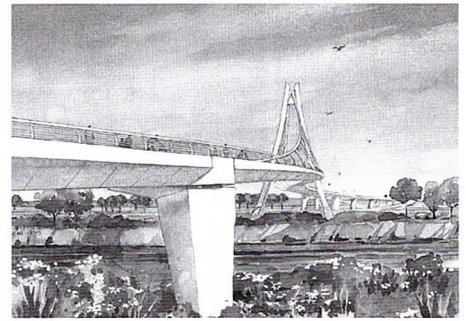
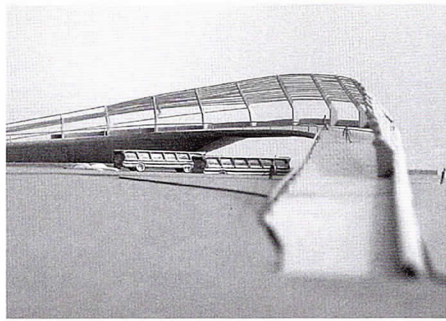
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Winning entries in the pedestrian bridge contest



Drawings courtesy of the firms

Thom Greene, AIA was featured in the January/February issue of *Ecostructure* in an article about the new environmentally-conscious home designed by his firm *Greene & Proppe Design*. The home is located at the Kickapoo Mud Creek Nature Conservancy in Oregon. Ill.

Chicago Tribune architecture critic Blair Kamin gave the renovated Randolph Street Metra station designed by **Skidmore, Owings & Merrill** a glowing review in a January 23 article. "The Randolph Street station has been transformed into a bright, open and visually dynamic gateway for thousands of Metra Electric and South Shore Line commuters," he wrote.

Also in the January 23 issue of the *Chicago Tribune*, **Lisec Biederman** was mentioned in a story about redevelopment in Humboldt Park, **Hartshorne & Plunkard** was cited in a piece about West Village Homes.

Budd Dietrich, AIA of Harold Forrest Dietrich Architects was interviewed about his work on January 23 by Dave Rausch of *Home Improvement USA*, a nationally syndicated radio program about his work.

Also on January 23, **Hammond Beeby Rupert Ainge** was mentioned in an *Oregonian* article about the Jordan Schnitzer Museum of Art at the University of Oregon. Hammond Beeby Rupert Ainge designed the museum's expansion.

Fred Brandstrader, AIA was quoted in a January 21 *Chicago Tribune* story about efforts to cover the Oak Park section of the Eisenhower Expressway with a partial or complete roof when the highway is reconstructed in the next decade.

Laurence Booth, FAIA was cited in a story about the renovated Palmolive Building in the January issue of *Chicago Social*. "It's probably one of the top 10 architectural buildings in the U.S.," Booth said of the

structure. "It ranks with Rockefeller Center and the Chicago Board of Trade."

Stephen O'Malley, AIA, of Cath Associates was quoted in a story about the debate about sprinklers in the aftermath of the LaSalle Bank inferno in the January 2005 issue of *Midwest Real Estate News*. **Solomon Cordwell Buenz & Associates'** Kilbourn Tower was also featured in the same issue.

Daniel Cinelli, AIA of Perkins Eastman Architects was mentioned in a story about new types of housing for seniors in the January 16 edition of the *Chicago Tribune*.

Three AIA member firms were among the winners of a competition to design five new pedestrian bridges along Chicago's lakefront. **Cordogan, Clark & Associates** was chosen to design the 41st and 43rd Street bridge, **Teng & Associates**, 35th Street and **Wight & Co.** with Edward Windhorst Architects, Lake Shore Drive at the Chicago River. *Chicago Tribune* architecture critic Blair Kamin especially liked Teng's design. "Its unusual, single tower design is at once based on the laws of physics and

the more subjective calculation that a typical, twin-towered suspension bridge would have been too much for this site," he wrote in a January 16 article.

Finalists included **Annex 5; Lohan Caprile Goettsch; Murphy/Jahn; OWP/P; DLK, Garofalo Architects** and **URS Corp., Ross Barney & Jankowski, Sheehan Partners with URS Corp., Skidmore, Owings & Merrill**. Bridge construction could begin as early as next year.

Past AIA Chicago president **Charles Smith, AIA** was quoted in a January 25 *ArchitectureWeek* article about the 2004 design awards. "There is no doubt that the significant depth of architectural talent in Chicago is a tangible asset to our city," he said.

Stephen Saunders, AIA was featured on the January 11 episode of *HGTV's Homes Across America*. The Prairie Style home Saunders created for himself and his family was on that show.

Lee Bey, director of media and governmental affairs at Skidmore, Owings & Merrill, wrote a story about the efforts of **John Ronan, AIA** of Ronan Architects to save a local coach house and turn it into a residence in the January 2005 issue of *Architectural Record*. *Chicago Tribune* architecture critic Blair Kamin wrote an article in the same issue about the Jay Pritzker Pavilion in Chicago. That piece mentions **Gehry Partners, Skidmore, Owings & Merrill, Schuler & Shook, OWP/P, Hammond Beeby Rupert Ainge, and Ed Uhlir, FAIA**.

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CALL FOR ENTRY

The Skidmore, Owings & Merrill (SOM) Foundation is changing its **fellowship competition** so that it relates to current architectural design and related fields. Beginning this spring, the foundation will combine the architecture and urban design juries. The two architectural fellowships of \$15,000 each will be continued to be offered, however, schools can now nominate four bachelor-level students and four master-level architecture students. The \$7,500 Urban Design fellowship will be awarded as it was previously. The foundation has also renamed the Interior Architecture fellowship, which will now be a design fellowship. It will include interior environment, furniture, environmental graphics, lighting and product design. The building-systems technology-grant will not be awarded in 2005; it will also no longer be administered by the American Society of Heating, Refrigerating and Air Conditioning Engineers. This particular grant will reappear in fall of 2005 as a building technology grant; further details will be released later. The structural fellowship and United Kingdom awards remain the same. For more information, visit www.somfoundation.com.

The Home & Garden Television show **Building Character** seeks creative, visionary homeowners who have converted a public building into a residence. Previous episodes have featured homes that were formerly boathouses, firehouses, banks, drug stores or any other type of public structure. The show's goal is to tell the story of the building, its renovation, its homeowner and how each relates to the other. Home videos, archival photos, inexpensive snap shots and supporting documents are welcome. For more information, visit www.hgtv.com/hgtv/shows-bdc.

AWARDS

Shinya Uehara, Assoc. AIA and **Chantelle Brewer, Assoc. AIA** were among the finalists to design an addition to the National AIDS Memorial Grove in Golden Gate Park, San Francisco. Uehara and Brewer proposed constructing 25 stainless spheres, each engraved with a number to signify the known AIDS deaths in each of the years of the last quarter of a century. Each finalist won \$1,000.

PROFESSIONAL DEVELOPMENT

University of Illinois at Urbana-Champaign's Department of Urban and Regional Planning will sponsor its annual Planning Institute at the campus' Levis Faculty Center. This year's topic is **Community Design for Healthy Lifestyles** March 3-4. For more information, email Patti Petri at pattsi@uiuc.edu. The Institute is approved for professional education credits.

American College of Healthcare Executives (ACHE) is offering audio/web conferences on the topic of Healthcare Facility Design and Construction. **Financing Construction Projects for Rural and Community Hospitals: A CEO's Perspective**, will be held 3 to 4:30 p.m. CST March 9; *Launching a Healthcare Facility Project*, 11 a.m. to 12:30 p.m., CST March 30. The registration fee is \$165 for ACHE affiliates, \$185 for others. Register online at www.ache.org.

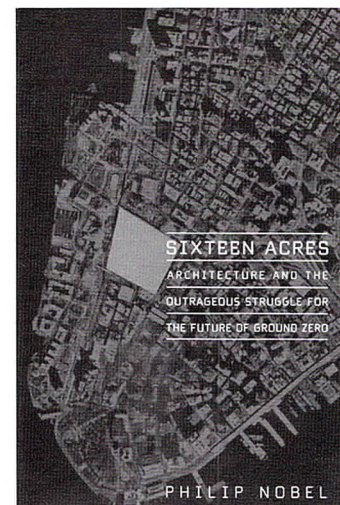
The Chicago Committee on High-Rise Buildings will sponsor a seminar on **High-Rise Fire and Safety in Chicago**, March 25 8 a.m. to 3 p.m. to discuss significant changes in Chicago's building code. There have been also been major changes to the city's fire department protocol during responses to high-rise fires. Cost is \$175 for non-members, \$125 for members of sponsoring or co-sponsoring organizations. Visit www.cchrb.org for more information. 6 HSW continuing education credits.

The Chicagoland Sheet Metals Contractors Association 2005 trade show will be held 1 to 9 p.m. March 29 at the Drury Lane Oakbrook Terrace, 100 Drury Lane, Oakbrook Terrace. Register online at www.csmca.org. 1.5 AIA/CES LU.

VARIOUS MATTERS

Thomas B. Battles, AIA was named one of **50 industry "Titans"** at the Precast/Prestressed Concrete Institute's 50th anniversary. The honor is awarded to those living and dead who have contributed to that industry's success.

Lohan Caprile Goettsch will be among speakers for a Friends of Downtown talk on **111 S. Wacker Dr.**, a 51-story office tower currently under construction, at 12:15 p.m. March 3 in the Claudia Cassidy Theater, 77 E. Randolph St. For more information, visit www.friendsofdowntown.org or call 312/726-4030.



Architectural Record editor **Robert Ivy** will talk about Chicago architecture in the 21st century at 6 p.m. March 10 in the Art Institute of Chicago's Fullerton Auditorium, 111 S. Michigan Ave. For more information, visit www.archdesignsociety.org or call 312/443-4751. Program is free with museum admission.

Author and critic Philip Nobel will discuss his new book **Sixteen Acres: Architecture and the Outrageous Struggle for the Future of Ground Zero** 6 p.m. March 10 at the Chicago Architecture Foundation's ArchiCenter, 224 S. Michigan Ave. Nobel's book examines the World Trade Center competition, the ensuing design process and architecture as a whole. Visit www.architecture.org for more information.

Landmarks Preservation Council of Illinois will sponsor a lunch-time talk March 17 at 12:15 p.m. in the Claudia Cassidy Theater, 77 E. Randolph St. Author and photographer Nancy Schumm-Burgess will talk about her book, **The Barns of Lake County**. She will talk about how historic barns are disappearing rapidly in this part of Illinois. Call 312/922-1742 or visit www.landmarks.org for more information.

Joe Valerio, AIA will discuss his work 4 p.m. March 18 at Judson College's Fine Arts Performance Hall, 1151 N. State St., Elgin. For more information, call 847/628-1013.

London-based architect Quinlan Terry has been awarded **the third annual Richard H. Driehaus Prize for Classical Architecture** by Notre Dame University's School of Architecture. Terry will be honored at a Chicago presentation ceremony March 19. Thomas Beeby, AIA was one of the jurors.

Marion Weiss of Weiss/Manfredi Architects and Associate Professor of Architecture at the University of Pennsylvania's architecture department will deliver a lecture about her work March 31 at 6 p.m. in the Art Institute of Chicago's Fullerton Auditorium,



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111 S. Michigan Ave. The talk is co-sponsored by the Art Institute of Chicago's Architecture and Design Society and the University of Illinois at Chicago's School of Architecture. The talk is free. For more information, visit www.cwarch.org/calendar.html.

Sidney Robinson, AIA last month lectured on **Frank Lloyd Wright as Critic: On the Japanese Print**. As an Associate Professor of Architecture at the University of Illinois at Chicago and consultant to Preservation and Educational Programs—Talesen, Robinson explored Wright's fascination with *Ukiyo-e*, the floating world of these masterworks.

Tigerhill Studio, Western Springs, last year celebrated its 30th anniversary with a year-long philanthropy program benefiting professional and non-profit firms. The studio donated five aerial photographs of the Farnsworth House designed by Mies van der Rohe in Plano, to the Landmarks Preservation Council of Illinois' Web site. It also served as a pro bono photographer for AIA Chicago events.

NEW MEMBERS

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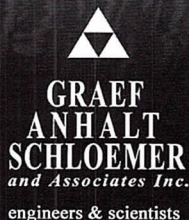
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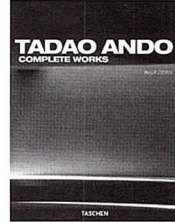
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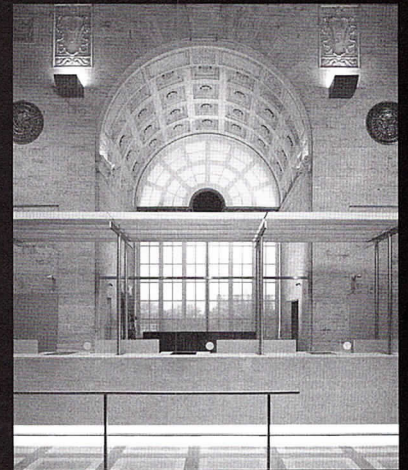
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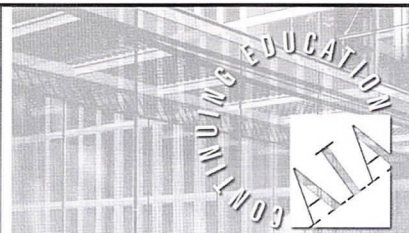
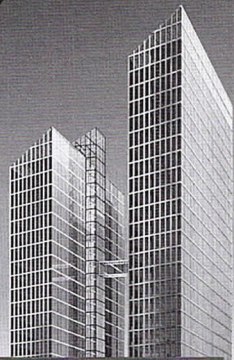
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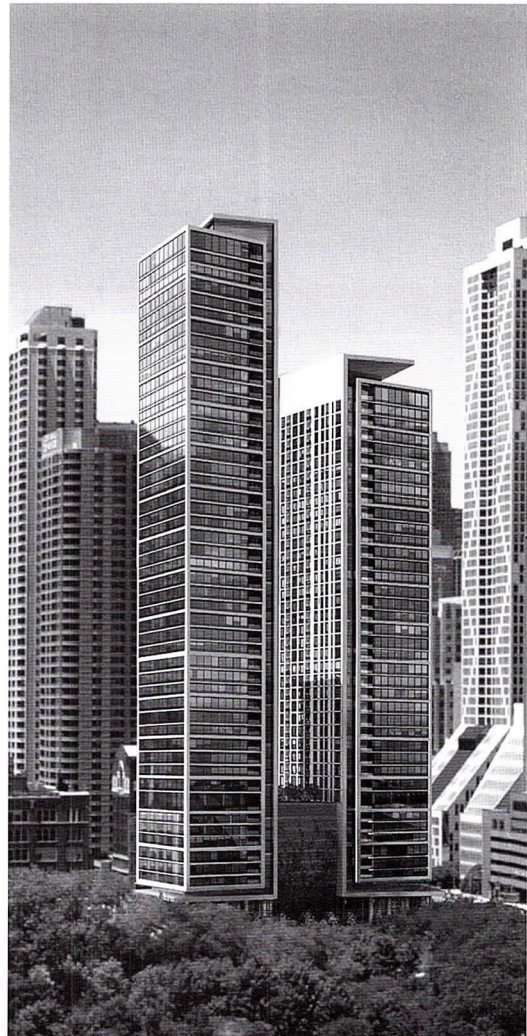
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AIA Chicago serves a membership of more than 2,800 architects, emerging professionals, and allied partners. Founded in 1869, it is the second largest chapter in The American Institute of Architects. The AIA is based in Washington, D.C., and has over 74,000 members committed to excellence in design and livability in our nation's buildings and communities. AIA Chicago provides professional development opportunities to its members and valuable resources to the community through educational programs, public outreach activities, an awards program, construction documents service, and task forces on public policy issues. Members adhere to a code of ethics and professional conduct that assures the client, the public, and colleagues of an AIA-member architect's dedication to the highest standards in professional practice. For more information, call AIA Chicago at 312/670-7770 or visit the chapter's Web site at www.aiachicago.org.

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Info: www.aiachicago.org.
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Suite 1049
Chicago, Illinois 60654
312/670-7770
312/670-2422 (fax)
info@aiachicago.org
www.aiachicago.org