

THE NEWSLETTER OF THE EAST BAY CHAPTER OF THE AMERICAN INSTITUTE OF ARCHITECTS

**Project Profile by
Chris Lamen & Associates, Inc.**



Cathedral Gardens, Oakland, CA

Cathedral Gardens is a 100% affordable rental housing project designed for families in Oakland. The project will have a total of 100 units located within an existing three-story rectory building and in two new three- and four-story wood frame elevator-served buildings. The rectory was originally part of the St. Francis de Sales Cathedral Complex and is considered a significant historic building by the Oakland Landmarks Board.

The four story building will be constructed over a semi-depressed structured parking garage with a landscaped podium deck that will provide usable outdoor space. The Rectory building will be rehabilitated. The three-story building will be developed as a new slab-on-grade construction.

The project will be constructed on approximately 1.3 acres of land located between 21st and 22nd streets adjacent to Begin Plaza Park on the west frontage. The development sponsors are EAH, a non-profit developer located in San Rafael, in partnership with the Oakland Housing Authority.

Of the 100 apartments, 35 are one bedroom/ one bath, 8 are two bedroom / one bath, 26 are two bedroom / two bath and 31 are three bedroom / two bath. All apartments have full kitchens and are designed in full ADA compliance for accessibility. A variety of community facilities including community room, after school homework center/ computer learning center, workout room, laundry rooms, and management offices are provided. The parking garage will provide all of the on-site parking for the entire development along with secure parking for tenant bicycles.

The Architecture incorporates contemporary building elements in a classic style well suited to integrate into the existing neighborhood context which includes a mix of midrise residential and office buildings, some commercial uses and some single family homes. The building massing is articulated to provide movement along the street facades and incorporates varied finish heights to add interest and create a raised living room ceiling heights at top level units. Street level planting will be included to incorporate vines along the base of the building.

The project is scheduled to start construction in the spring of 2012, will be Green Point rated and is anticipated to be LEED Gold certified.

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Editorial contributions and correspondence to the chapter are welcome. All material submitted for publication must be in electronic form either via e-mail or CD. Microsoft Word versions 5 and Text files are supported.

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RFP's / Fee Quotes / Design Build

As we navigate our way through this recession, many firms are trying to penetrate new markets. Firms that predominantly did commercial projects are now seeking ways to enter into the public realm and vice versa.

PRESIDENT'S LETTER

Gerrard K. C. Lee, AIA
Chapter President

There are obvious problems in entering new markets and for those new to public sector work, someone pursuing an RFP needs to be aware of one thing. It is illegal in the State of California for a public agency to request fees within most RFPs. After all, selection should be based on qualifications (and RFQs should be what's issued) yet we still see many RFPs come out that have a fees request buried within them.

Since this is real life we are talking about, not many firms in today's climate will walk away from an RFP just because there is a request for fees. To those that take the higher road, we salute you. In many cases many of those public agencies are unaware of the legislation (the Mini-Brooks Act) and/or have been ill-advised by their legal counsel. To that end, the AIA California Council has been working to educate them and we can do our part by anonymously forwarding those offending RFPs to the AIA who will contact the public agency on our behalf. If you believe an RFP has been issued that is not in compliance with the Mini-Brooks Act, or are not sure, send it to Sidney Sweeney at the chapter office. She'll send it to staff at AIACC without any identifying information on it.

Unfortunately, the action taken by AIACC usually consists of a letter explaining why the RFP conflicts with current law. While helpful, it doesn't take the next step, which is legal action against a public agency. These days, are we satisfied with hum-drum action? Or, should the AIA be proactive, take the fight public so that with a single lawsuit, help educate the entire state with a wake-up call?

Another problem facing public sector firms are design/build RFPs. While public agencies appear to like the process for obvious reason, it places undue financial pressures on design firms. It is akin to doing design work for free and if the shortlist consists of four firms, in many cases it amounts to hundreds of thousands of billable hours down the drain for the three firms that did not win the bid. A design/build proposal usually encompasses a large team that includes the general contractor, all their subs, architect, structural, MEP, LEED consultant, acoustics, etc. Thousands of hours go into the preparation of the proposal and in many cases the original design has to be fully evaluated and occasionally redesigned to meet the budget.

Not many firms can afford to do this and many RFPs request SLEB (small local emerging business), placing an undue burden on the small businesses they are supposed to be helping. A small firm cannot afford to be on more than one losing proposal and for some even that one could mean closing their doors.

Architects are being squeezed from many sides. We need to be more proactive and we need to push back. The AIACC represents us in this state, write to them and tell them now is the time we stand up. 🗣️

Emerging Professionals

CSE Seminar

I have been getting a lot of responses regarding the past two months, articles about the new format of the CSE (California Supplemental Exam). If you are preparing to take the exam you may be aware that right now there isn't any good seminars out there that specifically cater to the new format. Instead, you find a hybrid of the old "Oral" format combined with a lot of assumptions. However, a number of East Bay Chapter members have taken the exam and have sat down to debrief about it so that our Chapter will have a strong CSE seminar geared directly towards the new format. If you are about to take the new format CSE, recently took the new exam format, or were licensed in the past five years, please come join the YAF (Young Architects Forum) this month as we discuss and get more ideas to build a great seminar for the CSE. See your monthly events postcard or go on the AIA East Bay website for more information on when we are meeting. 📌



EMERGING PROFESSIONALS REPORT

Jeremiah Tolbert, Assoc. AIA
Associate Director

IMPORTANT CIDP UPDATE

The California Architects Board at its June 16, 2011, meeting voted to discontinue the Comprehensive Intern Development Program (CIDP). The action will take effect upon codification of a regulatory amendment.

CIDP was originally developed and implemented as part of the Board's structured internship requirement in 2005 as an IDP overlay program to focus on evidence-supported documentation of training and enhanced intern/supervisor interaction. Improvements to IDP, as well as enhancements being made via the implementation of IDP 2.0, prompted the Board and its Professional Qualifications Committee to re-evaluate the need for continuance of CIDP.

The Board is working to address the regulatory change, which must be approved through several control agencies. CIDP shall remain a component of the licensing process until the regulatory change is approved and codified. Affected candidates will be notified once final approval has been received.

Cathedral Gardens, see cover



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Building Code Issues

Vertical Openings



Steven R Winkel, FAIA, CASp
The **PREVIEW** Group, Inc.
Architects providing
regulatory solutions



Kerwin Lee, AIA, CASp
Senior Consulting Architect
Rolf Jensen & Associates, Inc.
(RJA) klee@rjagroup.com

Kerwin says:

One of the key features designers use in a building are vertical openings or openings between floors. This may be a stair or just a floor opening to increase the volume of the space. Generally the code starts off by saying any vertical opening is required to be protected by a shaft enclosure, Section 708 of the 2010 CBC. From a fire protection standpoint, vertical openings are the most hazardous conditions. Fires spread vertically faster than horizontally.

Because vertical openings are such an essential and necessary part of a building, the code, under Section 708, has 16 exceptions. This list grew from 13 exceptions in the 2007 code to 16 in the 2010 code and is probably the longest list of exceptions in the code. There are four exceptions that are commonly used by designers.

Exception 2.1 – Permits opening for escalators and stairs. All exceptions have specific limitation or additional requirements. In this case the building is required to be protected by an automatic sprinkler system, the opening is limited to twice the width of the stair or escalator and there may be some height limitations (other than B and M occupancies four stories).

Exception 5 – Openings complying as an atrium with Section 404, we'll come back to this.

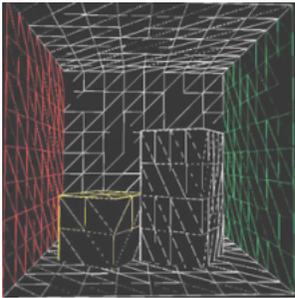
Exception 7 – Permits openings between one adjacent floor. There are seven parts to this exception. One is 7.3, which states that stairs cannot be used as part of a required means of egress. The other requires the opening to NOT be concealed within the building. In other words, the opening needs to be visible from normally occupied spaces. This allows a hazard (fire) to be visible by the occupants.

Exception 11 – This exception points to Section 1016.1, where there are two other exceptions associated with open stairs. In some cases, open stairs cannot be used as part of a required exit, so the open stair becomes a convenience stair only. Under these exceptions (3 and 4) in Section 1016.1, an open stair can be used as a required exit. The limitations are 50% of the required stairs and a maximum of two stories. This exception is located in the travel distance portion of the code, which means the overall travel distance, including travel on the open stair.

Exception 5 of Section 708 addresses vertical openings within an atrium complying with Section 404. An atrium is a major design element within a building, but carries a lot of baggage requirements with it. As we go into more green design, with vertical openings playing an important part in a green design, the value of having an atrium becomes more basic to the design. Creating an atrium for a two story space, although smoke control is not required for a two-story atrium, still brings some limitations to the design. This would include limited travel distance and requirements on finishes and other fire resistive separations. An atrium stair for egress is limited between the first and second storey of the atrium. It is best for a design to avoid an atrium design for this purpose. If one of the other exceptions previously discussed can be applied to permit the vertical opening, the application of the atrium section is not required. ■

Daylighting, part 2: Radiosity & Ray Tracing

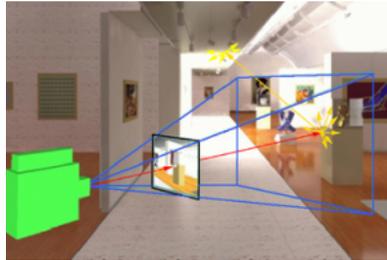
Last month I wrote about Daylight Factor as a measuring tool for determining the ratio of daylight in a space. This article is a prelude to the various daylighting simulation tools that are used presently in design practice, with the majority being computer simulation and photo-realistic rendering programs. They provide greater flexibility and speed when compared to manual methods and physical scale models and it saves time and money. These simulation programs vary in complexity from simple programs with limited accuracy that calculate only daylight, to highly sophisticated and accurate programs that can calculate daylight, sunlight and artificial light. They are, however based on a smaller number of actual algorithms and implementations, some of which appear in several different packages. Two basic approaches to computing the distribution of light in a scene are radiosity and ray tracing. Though originally developed for rendering images, these algorithms can also be used to calculate daylight factors and to calculate levels of illumination at specific points within a space given a few additional inputs.



Radiosity: Radiosity techniques developed for image rendering and lighting simulation (also known as finite element flux transfer method) are based on thermal-engineering models for emission, reflection and absorption of thermal radiation. The method assumes the conservation of light energy in a closed environment; all energy that is emitted or reflected by each surface is accounted for by its reflection or absorption by all other surfaces. Each surface in consideration is sub-divided into small planar patches or elements (generally triangles) and the relationship between each patch and every other patch is calculated. Then the original light flux is mapped onto these patches and the reflected energy is redistributed according to diffuse reflection based on the solid angles subtended between the elements. The distribution of light is thus computed by calculating for each pair of patches to create a form factor that describes the fraction of the energy leaving one that

reaches the other and then evaluating the energy balance equations to determine patch intensities. Radiosity is advantageous for visualization where multiple viewpoints such as animation sequences are required, as the pre-computed relationships between surfaces are independent of viewpoint, and hence several views can be efficiently constructed after the main set of computations have been made.

Ray tracing: The use of ray tracing in the computer image-rendering field has been around the computer graphics industry when it was first introduced in 1980. The fundamental approach implemented by ray tracing algorithms is to consider the picture plane as a fine grid of pixels placed between the viewer's eye or a camera and to send a ray from the eye/camera through each pixel to the scene. If a ray intersects a surface, the pixel is assigned a brightness and color corresponding to the surface color, the surface texture, and the illumination at the point of intersection. In order to determine the illumination at the point of intersection, a new set of rays is spawned at the intersection point toward light sources and other surfaces to determine the direct and the indirect contributions to the illumination. The process is repeated until a ray intersects a light source or until a maximum number of "bounces" specified by the end user have been reached. This technique is usually referred to as backward ray tracing. In light backward ray tracing the path of light rays is traced from the viewpoint back to the sources of light, the opposite direction to which rays of light actually travel. In light forward ray tracing, light is followed from the light sources to the final measurement areas. Shadows, specular reflections and refractive transparency effects can be modeled by backward ray tracing. Yet, it may perform poorly for objects that contain many inter-reflection paths, complex luminaries or some innovative glazing materials. In those cases, forward ray tracing could be used to determine the light output distribution of such objects which is referred to as Mkillum distribution. However, forward ray tracing is not considered appropriate for rendering images because when the paths of rays traveling away from light sources are traced too few rays are likely to pass through the image plane to form an acceptable image.



All the daylighting simulation tools available and those which shall be discussed in the forthcoming articles are based on either of the two above mentioned algorithms. ▶



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Take this with you on your next trip!

Taking a trip this summer, and wondering if there's any significant architecture nearby that you should visit? Here are two apps useful for architects on a busman's holiday.



Larry Mortimer, AIA
lmort@kmort.com

Architecture (\$4.99, free 3 day trial)

System Requirements: Any iPhone, 4th generation iPod Touch, or iPad with iOS 3.0 or later.



What does it cost: \$4.99, free 3 day trial

What does it do: It uses GPS to alert users about significant architectural landmarks nearby. The app's index includes work from 165 architects in 270 different cities, and tells the story behind each building and the architect. It displays two pictures of every project, and gives you walking or driving directions to get there.

Pros: It's a nice travel companion that will alert you to architecture you might otherwise miss, and no data connection is required to use app (descriptions and pictures are stored on your device).

Cons: There are some errors and omissions, and since it only covers 270 cities and 165 architects, some people will be disappointed that their favorites may not be included.

Conclusion: It might be useful, but I would check out the free trial for my travel destination before buying. Find out more at: <http://www.makayama.com/architecture.html>

Architory (\$2.99)

System Requirements: Any iPhone, 4th generation iPod Touch, or iPad with iOS 3.0 or later.

What does it cost: \$2.99

What does it do: Architory presents the works of over 100 of the most influential architects since the Renaissance, all the way up to the modern era, in a quick and easy to read format. Described as the history of western architecture in your pocket, it's an indispensable reference for Architecture students, professionals and enthusiasts alike. It has over 1500 carefully selected images.

Pros: Architory is another nice travel companion, and while it won't replace your Bannister Fletcher (A History of Architecture), at \$2.99 it won't break the bank either. It has an elegant black background interface that's a pleasure to navigate, and you can search by project, architect, or by map.

Cons: As the description states, it only covers the history of Western Architecture, so it's not going to be of much use if, for example, you're traveling to the Far East.

Conclusion: At this price you can afford to have it in your pocket to amaze your friends with your knowledge of architecture & history.

Find out more at: <http://www.architory.com>

Buy both apps at: iTunes App Store

Since these apps only work on an iOS device, I tried to find something similar on other mobile devices. Unfortunately most non-iOS smart phone/tablet operating systems have very little to offer regarding architecture, but If you're running an Android device, you might check out Geolover (<http://geolover.com/android/>). While it's not specifically aimed at architecture, it does appear to do some similar things.



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Members & Firm News

Morimoto Retires with Camera in Hand

Hiroshi Morimoto, AIA retired at the first of the year. While his first love is still architecture, now that he's retired he has been pursuing his passion for photography. Two of his photos are on exhibit at Nelly's Java Gallery, a small coffee shop at 1952 Mountain Blvd. in Oakland. You can also see all the photos that are on exhibit at Berkley Fine Art Photographers' website at <http://www.berkeleyfineartphotographers.com/exhibit2.htm>

Swigert to Perkins & Will

Chris Swigert, AIA, is Perkins & Will's newest Senior Associate and now Technical Director of the San Francisco office.



Chris Swigert, AIA

News From Ratcliff

Selected for major new project:

Ratcliff just announced their selection by the County of Santa Clara, California, to furnish design services for the new San Jose Downtown Health Center. Ratcliff was awarded the project in March and has completed the programming phase for the three-story, 60,000 square foot facility. The clinic will be equipped with services including imaging, pharmacy and OBGYN, as well as urgent care. The Urgent Care service will be open in the evenings and weekends for neighborhood use. The project will be designed to achieve LEED Silver certification. The project is scheduled to be completed in 2014.

New promotions:

Ratcliff announces the promotion of **John Sealander, AIA**, project manager to the firm's healthcare practice group, to senior associate, architects Katy Ford, Young-Jae Kim and Ben Levi to associate, and designer Christopher Young to associate.

John E. Sealander, AIA, has 25 years of experience in architecture for health care and is the senior project manager for Ratcliff's health care practice area. Sealander joined Ratcliff in 2009. He earned both his master's degree (1979) and his bachelor's degree in architecture (1969) from the University of California, Berkeley.



John Sealander, AIA

Architect **Katy Taylor Ford** has 19 years of experience in design and management for Healthcare, Multi-family housing and commercial interiors. Ford earned her bachelor of design from the School of Architecture, University of Florida in 1986 and her master of architecture from the University of Texas at Arlington in 1989.

Architect **Young Jae Kim**, has extensive experience in the design and technical development of health care facilities. She earned a bachelor in architectural engineering from Dong-A University, Busan, Korea in 1993 and her master of science in architecture from California Polytechnic State University, San Luis Obispo in 1998.

Architect **Ben Levi** joined Ratcliff in 2007. He has 19 years of experience in architecture and design on a variety of project types including schools, transportation, civic, institutions and residences throughout the United States and Europe. He earned a bachelor of architecture degree from the University of Zagreb, Croatia in 1992.

Designer **Christopher Young** has been with Ratcliff since 2008. Young earned a bachelor of science in finance from the University of Florida in 2003, and a master in architecture from the University of Oregon in 2007.

Swatt/Miers Designs Platinum Prefab

A LEED Platinum Prefab Home was installed on Saturday July 9th in Emeryville. Prefabrication of the home's components began mid-April in a modular home factory in San Jose, CA. The home's five modules arrived substantially complete on a caravan of trucks early on the morning of July 9th; by evening the structure was fully erected.



The delivery and installation of this first-of-its-kind modern residence reflects dozens of design and production innovations for prefab developer Simpatico Homes. The architecture and engineering team spent four years in research and development on the design for their prototype residence.

"Through prefabrication we have the opportunity to create custom-quality modern residences at a price point at least \$100 per square foot less than our other site-built residences" says architect Robert Swatt, FAIA, designer of the home and a partner in Simpatico Homes. The home boasts an all-electric

net zero energy design, hydronic radiant floor heating, a 6.2 kw solar panel array, a living green roof, and a rainwater catchment system.

This was featured in the July 16th S.F. Chronicle

(Member/Firms in the News continued on page 14 [click here](#))

Job Listings

If you're looking to make a change, or need to find a new employee, look to the AIA East Bay Job Board.

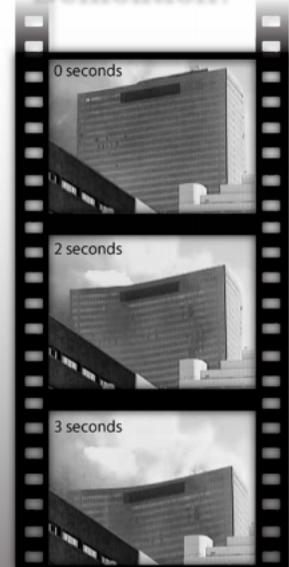
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Steven Winkel, FAIA
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California Building Standards Commission

Firm Profile: Richard Bartlett, AIA, Architect

Born and raised in an agricultural setting, I have always been impressed with how much humans, like other animals, are dependent upon Nature's cycles. This appreciation must have followed me as I entered school in the mid-sixties, at Oklahoma State University, which had for many years been steeped in the Beaux Arts tradition of design. An influx of Mies-influenced professors from MIT joined the faculty while I was there, and the chemical reaction between these adamantly opposed factions created an environment for studying architecture, in Vitruvius' words, as the finest of the useful arts and the most useful of the fine arts. I completed my formal education with a second degree in non-western humanities, which introduced me to a gentler method of navigating the world of design. I believe those teachings are always at work in my vocation.

Our firm is currently enjoying its concentration on single family homes. Although we have been involved in civic, commercial and ecclesiastical projects, we enjoy the satisfaction of helping a family find happiness and health in their special, private place. As a beginning point and return destination, we are convinced that a home affects one's entire outlook on day-to-day business dealings and lifestyles. We work hard to help our clients articulate their visions, first by nurturing an environment for good communications, then by listening well, and finally by creatively leading the way to a comprehensive solution. Every design project starts fresh, avoiding a preconceived notion of how a project should feel and work. As the myriad pieces of the puzzle are fitted together with a combination of analysis and intuition, a form evolves which responds to all aspects of the environment, the client's wishes, and the realities of budgets and codes. Our respect for individuals also extends to the construction site. We encourage interactions with various trades as the project is constructed, and try to avoid the stigma that often follows an architect into the field. We have observed that the best work is usually done by crafts persons who feel they are a valuable part of the team.

As we approach our projects, we like to wonder how our ancestors might build if they had our current technologies along with their native common sense. We always recommend the use of robust natural materials and focus on those that do not require toxic preservatives for maintenance. We like to imagine that we can use our intellect to improve the environment and to respond to natural phenomenon rather than simply trying to do the least possible damage. Moving forward, we hope that we can help lead the way toward finding better and simpler ways to build, while enhancing our planet for future generations to enjoy. There is a small poster in our office that quotes C. E. A. Voysey: "Simplicity, sincerity, repose, directness and frankness are moral qualities as essential to good architecture as to good men." That sums up the profile and goal of our firm. ☺



Member Profile: **Burton Peek Edwards, AIA**

Principal, Siegel & Strain Architects

My first architectural experience as an eight-year old was when my mom took my brother and me to see the Robie House in Chicago. Wright's ultimate urban Prairie House was a real eye opener and unlike anything else in the suburbs where we lived. Later we moved to the Quad Cities – home of Deere & Company. My dad had been promoted to director of purchasing with responsibility for investigating the new materials Eero Saarinen was proposing for Deere's headquarters building. Notably my dad most strongly opposed Saarinen's choice of Cor-Ten steel. "Better suited for bridges than buildings" he said, and besides, "how does a rusty building reflect on the durability of our tractors?" More progressive executives prevailed and the Cor-Ten became an integral part of Saarinen's tour-de-force design. Dad did insist on inserting a line item in the budget for painting the building ... just in case.



I received a degree in Architectural History from Stanford and later went on to study at Yale. Architecture itself was my real calling and I finally made it to UC Berkeley where I received an M. Arch. A certificate in project management from UCB followed and I recently returned to school at CCA (nee CCAC) for a BFA in painting.

My first couple-of-years in practice were spent at MBT in San Francisco. It was a great experience for a newly graduated architect; MBT taught me to pursue excellence in design while maintaining the highest professional standards. A few other jobs intervened before I joined Siegel & Strain Architects in Emeryville.

At Siegel & Strain, I serve as Project Principal for their historic projects. I enjoy working on preservation projects involving historical research, cultural resource analysis, condition assessment, building rehabilitation and restoration of significant structures. Recent projects include HABS recordation for Highland Hospital in Oakland, Historic Structures Reports for the Smyth-Fernwald site at UC Berkeley and Fort Funston in the Presidio. Active historic design projects include the Maritime Child Development Center (Rosie the Riveter WW II Home-front National Historic Park) with Hamilton + Aitken Architects and stabilization / rehabilitation of the John Marsh House (1856) in Brentwood for California State Parks.

Contemporary projects have included the Orinda City Hall, Oak Lodge (Applegate, CA), Ocean Avenue Houses (Oakland) and designs for the Stewardship and Sustainability Center at the Presidio and Zzyzx Mineral Springs in the Mojave National Preserve.

Our projects have won awards from the National Trust for Historic Preservation, California Preservation Foundation, Heritage (San Francisco), Berkeley Architectural Heritage Association, Oakland Heritage Alliance and the San Francisco and East Bay Chapters of the AIA. Siegel & Strain has also received three national AIA COTE Top Ten awards.

I have been an active participant in historic preservation and civic design issues. I served as Chair of both the Landmarks Preservation Commission and Design Review Committee (Berkeley). I've served on the CPF annual meeting Program and Steering Committees for the last several years.

My wife and I live in a 1913 John Hudson Thomas house in Berkeley that we have lovingly and tediously restored over the past 25 years. We have four children and nine grandchildren! 🍷

Members in Public Service

— continued

OAKLAND

Dave Byrens, AIA

Chair, Shoreline Cleanup - Kiwanis

Michael Coleman, AIA

Member, Board of Directors

Museum of Children's Art (MOCHA)

Alan Dreyfuss, AIA

Member, Oakland Landmarks Advisory Board

Claudia Falconer, AIA

President, Montclair Village Business Assn

Patrick G. Gaughan, Assoc. AIA

Chair of the Council on Architecture, Oakland

Museum

Reve Gould, AIA

Board, Piedmont Montclair Rotary Club

Harley Jensen, AIA

Member of the Council on Architecture

Oakland Museum

Eli Naor, AIA

Board, Oakland Chamber of Commerce

Vice Chair Measure Y Oversight Committee

John Nelson, AIA

Board Chair, Oakland Chamber of Commerce

Andre Ptaszynski, AIA

Secretary of the Council on Architecture,

Oakland Museum

Gary Struthers, AIA

Board of Directors for East Bay Habitat for

Humanity

Helene Vilett, AIA

Council on Architecture

Oakland Museum of California

RICHMOND

Andrew Butt

Chair, Design Review Board

Tom Butt, FAIA

Member, Richmond City Council

Representative of Richmond on the West

Contra Costa Transportation Advisory Committee

Representative of Richmond on the Water

Emergency Transit Authority Citizens Advisory

Committee

Ray Welter, AIA

Member, Richmond Design Review Board

WALNUT CREEK

Mark Lopez, AIA

Design Review Commission

Allied Member Firm Profile: **Peter Rumsey, P.E., FASHRAE**

Managing Director, Integral Group

Widely recognized as global player in energy efficiency, and a leader in sustainable and resource efficient building design, Peter has worked in the engineering and energy consulting industry since the mid 1980s. As Managing Director of Integral Group (formerly Rumsey Engineers), Peter has directed the design of 10 LEED Platinum Certified projects and 8 LEED Gold Certified projects; as well as 17 LEED Platinum, 11 Net Zero and 3 Living Building Challenge projects, which are currently in-design. Peter has been responsible for many key innovations in energy efficient design and analysis, including pioneering the use of chilled beams (induction diffusers), efficient outside air systems that eliminate reheat, radiant cooling systems, and low pressure drop systems in U.S. laboratories; and the use of guaranteed performance contracts for HVAC systems based solely on measured system data. Above and beyond design, one of his major areas of innovation is making green affordable.



Driven to transform building practices by creating prominent examples of green buildings that are affordable and practical, Peter has paved the path for many sustainable "firsts," in the design of efficient HVAC systems for academic and commercial buildings, laboratories, cleanrooms, and data centers. Under Peter's direction, the Integral Group team has designed the nation's first Net Zero commercial office building, IDEAs Z Squared; the first LEED Platinum Pre-certified data center in the world for Advanced Data Centers; the first Net Zero Lab in the country, J. Craig Venter Institute Laboratory; the high-profile greening of the The Empire State Building; and currently, the team is working on what is expected to be the largest Zero Energy public building in the U.S., the Exploratorium Museum.

Peter's passion for energy efficient and sustainable design issues has led him to publish widely on HVAC energy efficiency. He has contributed to many publications, including *Environmental Design + Construction* magazine, *ASHRAE Journal*, *Plumbing Engineer* magazine, *Plant Services* magazine, and *Cleanrooms* magazine. Furthermore, Peter enjoys sharing his commitment to sustainability through speaking engagements at industry events, including USGBC's GreenBuild, PG&E's Pacific Energy Center, Labs21, and Cleanrooms West, as well as serving as a Lecturer at Stanford University, where he teaches a weekly course covering advanced topics in Integrated, Energy-Efficient Building Design.

Peter received his Bachelor of Science in Mechanical Engineering from the University of California at Berkeley; he is a Professional Engineer, Registered in 14 States; Certified Energy Manager; Senior Fellow at the Rocky Mountain Institute; and ASHRAE Fellow. 📍

Cathedral Gardens, see cover



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Calendar

- 8/9/11 **Home Tours Committee Meeting** This meeting is open only to current task force members. Time: Noon-1:30pm
- 8/9/11 **Home Tours Docent Training** All docents must attend one of this week's trainings. Please RSVP to ensure we have the proper amount of pizza. Time: 6:30-8pm
- 8/10/11 **Home Tours Docent Training** All docents must attend one of this week's trainings. Please RSVP to ensure we have the proper amount of pizza. Time: Noon-1:30pm
- 8/13/11 **AIA East Bay Home Tours** Spend the day touring eight very different houses throughout Oakland, Berkeley, Lafayette, and Orinda Time: 10am-4:30pm For more information: www.aiaeb.org/hometours.htm
- 8/15/11 **Office Closed**
- 8/16/11 **Revit User Group** Speaker/Topic: TBD Location: AIA East Bay Lunch is provided by Ideate, Inc. **Please RSVP** Time: 11:30am-1:30pm 1.5 CES LUs
- 8/26/11 **New Strategies and Service Ideas for IPD, Sustainability** Attend this onsite Webinar to learn how to differentiate yourself by offering products and services that set you apart from your competition. Presented by The Beck Group and Lucchesi Galati Architects Cost: \$45 AIA members, \$55 non-members [Click here to register](#) Time: 9:00am- Noon 3 CEU LUs
- 8/26/11 **Solar Demystified** Join the Forum on the Environment to learn more about PV solar Speaker: John Moser, Diablo Integrated Construction & Solar Time: Noon-1:30pm 1.5 CES LUs
- 8/27/11 **ARE Seminar: Schematic Design** Presented by Conrad de Jesus, AIA Pricing: \$36.50 for AIA East Bay Members, \$52 for AIA Members of Other Chapters, \$72.5 for non-members Time: 10-5pm
- 9/1/11 **Energy Update California** Guest Speaker: Jeffery Laing of Ecology Action Presented by Small Firm Forum Time: Noon-1:30pm 1.5 LU CES Hours

Fire Storm 20th Anniversary Program Seeking Volunteers

This year brings us to the 20th anniversary of the Oakland/Berkeley Fire Storm. The Oakland Museum of California will be exhibiting a collection of Richard Misrach photos of the fire and its aftermath. The AIA EB is planning a program at the Oakland Museum commemorating the event. We expect the program to be on Opening Day (Saturday, October 15). The AIA EB Fire Storm Task Force is looking for AIA member survivors who lost their homes, or other members or non-members who made major contributions to the Fire Storm cleanup and rebuilding efforts willing to participate in the program. The program itself is still under development, so no details are available yet, but it will most likely be a round-table presentation with time for questions and answers. We are also planning to have a regular membership meeting about the Fire Storm early in 2012. Please send an e-mail to either Sidney Sweeny at the AIA or to Michael Coleman at Michael@MBCarch.com if you are interested in participating in either program.



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Kapoor Residence

Architect:
Swatt / Miers Architects



Greetings chapter members and subscribers!

I hope you'll be joining AIA East Bay on our inaugural Home Tours Saturday, August 13, 2011. This event has been a year-long labor of love for a fantastic team of folks chaired by Steven Stept, AIA. We're getting strong response from the public—I hope you will take part in the Tour, too.

The eight projects on the tour include:

- Small and perfectly detailed: the DIY House by Endres Ware and At-Six Architecture's Berkeley Cube are homes accessible to most budgets and tastes.
- A wonderfully restored and updated historic estate by de Laveaga Stoops Architecture
- A Mid-Century Modern that embodies "California Informality", renovated and restored by Studio Bergtraun, AIA, Architects and Hart Wright Architects as a spec project. The new owner, Gordon Chong, FAIA, embraced their vision so fully that even new furniture has been designed in the same manner.
- The first permitted rainwater catchment system--8,500 gallons--in Berkeley—designed by Geoffrey Holton & Associates to make the most of a small hillside site.
- Quirky, smart and cool: Leger Wanaselja Architecture own salvage/reuse/infill home.
- Restrained elegance is apparent in a New England-style Oakland Hills home designed by Glass & Associates, Inc. Architecture & Planning.
- The Kapoor Residence by Swatt I Miers Architects. Plan to spend extra time at this dramatic, exquisite home with 180-degree views of the Bay, Berkeley, and beyond.

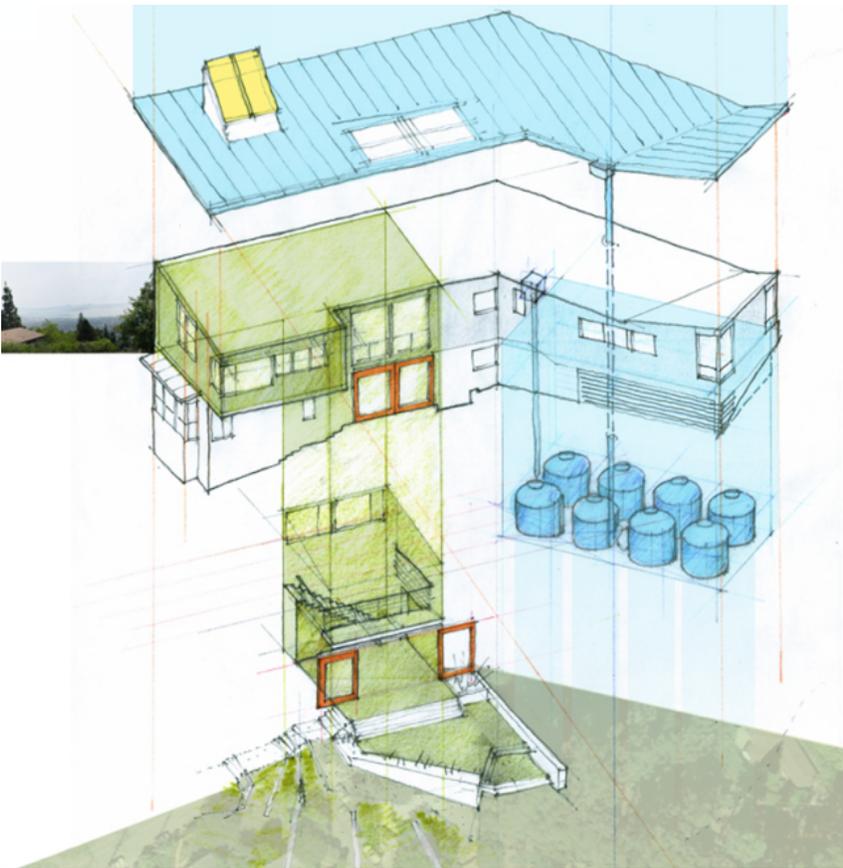
I encourage you to purchase tickets in advance, as we are limiting ticket sales so that tour guests have enough time and space to enjoy each home. However, should you decide to purchase tickets the day of the tour, the Will-Call tables will open at 9am at the DIY House (2237 10th Street, Berkeley) or Table 24 in Lafayette. I do hope you'll join us!

Best regards,
Sidney Sweeney
Executive Director



Queens Road Residence

Architect:
Geoffrey Holton and Associates



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partially residential and commercial, just across the street from the Shattuck Avenue Berkeley Bowl and Walgreens parking lots. The office suite is a second floor nicely remodeled space for up

to 8 employees. It includes a secure 2-car garage below with a private entrance on a quiet side street. The office suite has many windows and views of the East Bay hills. It has one large room, a medium sized room and a 3rd room which can be closed off for



conferences or executive use, a large storage closet which can be used for a

mini-kitchen, a bathroom, a foyer with wooden counters and sliding frosted glass windows at the top of the carpeted stairway and generous wood storage cabinets along a wall in the largest room. It is a perfect space for doctors, designers, architects, bio tech, etc. It is within walking distance of Ashby BART and downtown BART, the UC Campus, and AC Transit.



Kirala Restaurant and Crixia Cakes and Coffee are a block walk away. The building has a quiet single tenant. UTILITIES INCLUDED. Stuart St. at Adeline St. toketeel@comcast.net

Members/Firms In The News, continued from page 7)

Newly Licensed

The California Architects Board has posted the license information for five of our chapter members—they have very well-earned the title of architect!

Jamie Brown, AIA
Nathan Dison, AIA
Christopher Link, AIA

Shannon Carroll, AIA
Thomas Pippin, AIA



Shannon Carroll, AIA Christopher Link, AIA

Coyle Heads for the West Bank



Chapter member Steve Coyle, AIA will leave the US on July 18th to lead a charrette in the West Bank to design housing for the village of Al Aqaba (spelled Aqabah on Wikipedia <http://en.wikipedia.org/wiki/Aqabah>) on behalf of Rebuilding Alliance (www.rebuildingalliance.org). Coyle says, "I will return on August 1st, and have little or no internet access since we'll be residing and working in the village. My team will consist of local architects and engineers and I will endeavor to make the designs and plan as resilient and compelling as possible."

Kahn does Oakley

Citizens recently received their first glimpse of what the beginning of downtown Oakley's makeover will look like. Council members expressed delight with the drawings that Charles Kahn, AIA presented them of the buildings and plaza that will be developed on an approximately seven-acre parcel on Main Street directly opposite Oakley City Hall.

Davis takes on the School of Social Welfare

Sam Davis, FAIA, a former UC Berkeley professor of architecture, and past President of the Chapter will serve for one year as interim dean of the School of Social Welfare.

[\(return to page 7 click here\)](#)