



THE SOCIETY OF AMERICAN MILITARY ENGINEERS

# ARCHITECTURAL PRACTICE COMMITTEE

NEWSLETTER

## DOES THE GOVERNMENT STILL NEED **THIRD PARTY CERTIFICATIONS?**

The Federal design and construction sector has been pursuing higher energy and water efficiencies and environmental sustainability for over a decade. Third party certifications have been relied on to drive and validate progress toward these goals. Now, many people are asking, “we know how to do this now, so why do we need to spend all this extra money to just hang a plaque in the lobby?” They are referring to green building third party certification, and they raise a good question. Over the past decade, the vast majority of government agencies have become increasingly effective at designing and constructing high performance buildings, and coupled with the expertise of our private industry partners, we have produced some of the most innovative solutions that are testaments to energy conservation and sustainability all over the country. This then begs that question, “Why are we still spending all this additional funding on third party certification?” Those asking it that have really perfected their argument usually add “...especially at a time when funding is so scarce?” To answer this question, let’s first talk about why organizations choose to utilize a third party certification.

Some time ago, it occurred to me that almost everyone that utilizes a green building third party certification system

falls into one of three distinct groups. The first group is those that want to do the right thing, but don’t know how. They are going to build a building and they want it to be environmentally conscious, but they simply don’t know how to do it. So, they pick one of the fine certification systems available today, decide what level of certification they want (or can afford), and set out to save the planet. The second group is those that know how to do the right thing, but need to be forced. These are the people for whom we write performance-based requirements. We compose policies and contracts that say, “The minimum certification level for this project is...” The last group is, very simply, those that want to market their product. Usually, these are private industry organizations that try to appeal to our civic mindedness and say, “come live or work in our building because it is environmentally friendly.” I will confess that I have spent the latter half of my career believing that everyone who falls into one of these groups tended to stay in their particular group with little or no change. However, now I realize I jumped to that conclusion.

Recently, I have come to realize that it is not about grouping, it is about evolution. Most government agencies exemplify this point. A decade or so ago, the majority of government agencies began wanting



**Scott Wick**  
AIA, LEED AP, PMP

### INSIDE

Member News	2
Collaboration with AIA	4
Architectural Liaisons	9
“A Different Way to Think About Installations”	14
Contacts	16

# FROM THE COMMITTEE



**Paula Loomis, FAIA,  
LEED BD+C, PMP**  
*Vice Chair for Collaboration,  
SAME and AIA*

I'm writing this during the Christmas holidays. During this time of year we often take time to reflect on things that really matter – family, friends, good health, careers that are meaningful. As we enter 2014 also take time to think about the architecture that you produce. Is it well done? Is it meaningful to the people that use it? Does it help the occupants perform their work better, live better, recreate better, or relax more peacefully? In the coming year, take that little bit of time to add the extra thought that takes your work from ordinary to extra-ordinary. You have the ability to touch lives.

Happy Holidays and Welcome to 2014.

# MEMBER NEWS



**Sandra Zettersten, AIA, Dipl.-Ing. Architektin, FSAME**, Client Service Director of Europe, was awarded the Society of American Military Engineers (SAME) Service Award as SAME Rhein Main Post President from 2007 through 2013. This recognition was “awarded with great appreciation for your service” signed by Executive Director and President of SAME, Dr. Robert Wolff, P.E., FSAME.

The award was presented by current Rhein Main Post president, COL Pete Helmlinger, P.E., District Commander, Europe District, US Army Corps of Engineers at the SAME Rhein Main Post meeting at the Europe District Headquarters in Wiesbaden, Germany.

Congratulations to **Paula Loomis, FAIA, LEED BD+C, PMP**, who is now the 2014-2016 Regional Director, The Virginias, on the National Board of Directors for the AIA!

Paula has been active in AIA National for over 10 years, serving on the Strategic Planning Workshop (2003–04), Board Knowledge Committee (2004–06), National Collaborative Jury (2004), Public Architects Knowledge Group Advisory Committee (2001–06, chair 2006), and as Public Architects Workshop Chairman (2002–04). She



## THE AMERICAN INSTITUTE OF ARCHITECTS

had been a member of the Virginia Society AIA Board of Directors (1996–99), Honors Award Committee (1998), and Virginia Prize Jury (2012), and for the AIA Hampton Roads Chapter served as president (1999) and vice president (1998), among many other positions.



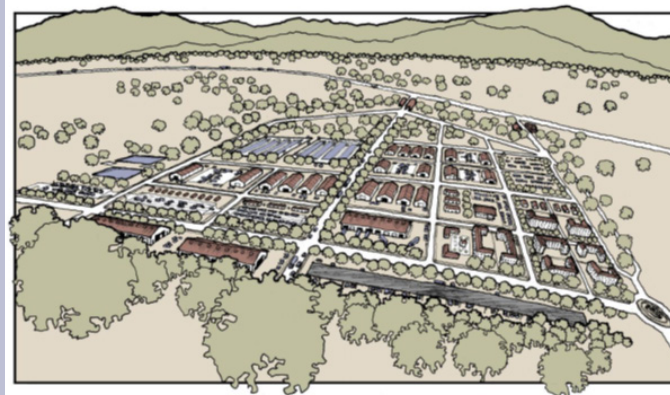
Case Studies – Joint Base Pearl Harbor-Hickam, 12 Workshops, 25 months, 420 Participants

## LAST QUARTERLY CALL

**JJ Tang**, APC Chair, opened the Quarterly Call on October 23 with a welcome, introductions, and a review of the APC Mission Statement. He reviewed the committee’s progress on 2013 APC initiatives with reports from each of the Vice Chairs and discussed upcoming webinars and planned presentations at the 2014 JETC and the SAME Executive Forum in September 2014.

**Jerry Zekert**, Chief, Master Planning Team, HQUSACE, and **Mark Gillem, PhD, AIA, AICP**, Principal, The Urban Collaborative, LLC and Associate Professor, University of Oregon, LTC, Retired, USAF Reserve, gave a presentation titled “**Installation Master Planning Unified Facilities Criteria: Planning in the Department of Defense.**” Dr Gillem opened with a review of old and new policy guidance, which set the stage for understanding revisions to the Department of Defense (DoD) Unified Facilities Criteria (UFC) for Installation Master Planning. DoD agencies are beginning to understand the impacts of past practices and the benefits of sustainable planning principles. Ten new planning strategies were discussed including: Sustainable Planning; Natural and Cultural Resource Preservation; Defensible Planning; Area Development Planning; Network Planning;

Form-Based Planning; Capacity Planning; Healthy Community Planning; Appropriate Facility Standardization; and Plan-Based Programming. Mr. Zekert continued with a discussion of process and products, which included training opportunities and case studies at Joint Base Pearl Harbor – Hickam, Fort Hood, and Fort Hunter Liggett. The team concluded with the following notes:



Sustainable Planning – Connected Streets

- Master planning is essential to preserving long-term military capabilities while achieving sustainable, energy efficient development.
- Sound planning practices, including sustainable, compact development can result in significant energy savings.
- Planning now moves from land use to sustainable urban design.
- Master planning and architectural design work together to create great installations.

As in the past, the entire presentation is available on the APC webpage.



Sustainable Planning - Transit-Oriented

# QUARTERLY CONFERENCE CALL

The Architectural Practice Committee will host a quarterly conference call on **Thursday, January 23 2014 from 12:00 – 1:30 pm EST**. Video conference call-in number: For web connection, go to: <https://www.spiderphone.com/05698937> (This link will help connect both your browser) and dial +1 212-812-2800 and enter 0569 8937 for phone connection.

Time: 12:00 pm to 1:30 pm, Eastern Standard Time; 11:00 am to 12:30 pm, Central Standard Time; 10:00 am to 11:30 am Mountain Standard Time; 9:00 am to 10:30 am, Pacific Standard Time; 8:00 am to 9:30 am, Alaska Standard Time; 7:00 am to 8:30 am, Hawaii Standard Time.

## THE INTERNATIONAL MASONRY INSTITUTE

### IMI MISSION:

The International Masonry Institute offers quality training for craftworkers, professional education for masonry contractors and free technical assistance to the design

and construction communities. IMI is a strategic alliance between the International Union of Bricklayers and Allied Craftworkers (BAC) and their signatory contractors to promote quality masonry construction.

Team IMI consists of architects, engineers, construction managers, skilled craftworkers and instructors, offering what no other group can: expertise in training, craftsmanship, design, installation and marketing. That means buildings built by union craftworkers and contractors get built the right way.

For more information visit: <http://www.imiweb.org/>



The agenda includes a committee focus area initiatives update, 1 AIA LU/HSW/SD credited presentation, and open discussion.

The guest speaker will be **Keith F. Lashway, P.E., Director of Industry Development and Technical Services, International Masonry Institute and President, Capital District Post, SAME** who will present a presentation titled **“Lessons Learned in the Masonry Field.”**

This session will highlight ten often made masonry construction and design mistakes. These mistakes will tend to lead to on-going building performance issues throughout the course of the building’s life. Topics include new material understanding, moisture and movement issues, field testing, supervisory methods, and constructability. Cavity wall construction will be used as the wall system for all discussions. Masonry materials will include brick, block, autoclaved aerated concrete (AAC) masonry units, mortar, grout, and plaster coatings. The presentation will use case studies and recommended design guidelines that reduce construction and design mistakes.

Keith F. Lashway, P.E., is the Director of Industry and Technical Services for the International Masonry Institute (IMI). Keith joined IMI in 2007 and has over 30 years experience in the private sector working in consulting as a design engineer and project manager on numerous steel, concrete, and masonry buildings. In addition, he has over 10 years experience in the public sector working as the Director of Environmental Services, Manufacturing Assistance, and Property Redevelopment for New York State.

Keith is involved in many organizations including ACI, NCMA, ASTM, NYSSPE, SEI, and SAME. He also has over 16 years experience teaching civil engineering as an adjunct professor at Hudson Valley Community College in Troy, New York and Union College in Schenectady, New York.

He is a graduate of Hudson Valley Community College in Architecture and the University of Buffalo in Civil Engineering and is a licensed professional engineer in New York State.

# HOW APC WORKS FOR YOU

The Architectural Practice Committee was created to support the community of architects within the Society. Four areas of focus include collaboration with AIA, continuing education opportunities for the profession, Urbahn sessions at SAME regional conferences, and communications of information to the community. Vice chairs for each focus area have been identified and

their goals for 2013 presented below. Additional information is available at the SAME APC web page. Many opportunities for involvement exist, so please consider volunteering in the focus areas that interest you by contacting each Vice Chair directly through the links provided at the APC web page or in the articles below.

# COLLABORATION WITH AIA

**Paula Loomis, FAIA, LEED BD+C, PMP**, is the Vice Chair for Collaboration between SAME and AIA. Recently, Paula attended the AIA National Board Meeting and has provided an extract below. The AIA is changing its structure to better address current architect/

architectural needs. Now is the time when our SAME/public architects can have an input. If you would like more information or would like to become more involved in the SAME/AIA collaboration, please contact Paula.J.Loomis@usace.army.mil

## AIA New President

On Friday, December 13, 2013, Helene Combs Dreiling, FAIA was installed as the 90th President of the AIA. Helene is the third woman AIA President in the Institute's 156 years and will be followed by the AIA's fourth woman President, Elizabeth Chu Richter in 2015. Helene is the third AIA President from Virginia. She follows William "Chick" Marshall, FAIA in 1975 and R. Randal Vosbeck, FAIA in 1981.

*Photo courtesy of AIA: Mickey Jacob welcomes Helene as the 2014 President at the Inaugural. There was a standing ovation!*



## AIA Gold Medal

The Gold Medal was awarded to Julia Morgan, an early 20th Century architect from California. She is the first woman to be given the Gold Medal. Having designed over 700 buildings of every type, she was a structural engineering

pioneer as well as a talented designer. Some of her most famous commissions were the Hearst Castle in San Simeon, St. John's Episcopal Church in Berkley, the Asilomar YWCA in Pacific Grove, and several buildings for Mills College. All of her buildings have survived the earthquake prone San Francisco area.

## What's Going on in the AIA

- The AIA will be buying more “air time” with NPR (National Public Radio) being a major media outlet. Listen for spots on the “Morning Edition” and “All Things Considered” shows.
- The AIA’s new electronic Contract Documents will be launched in early 2014. The software is being Beta tested now by AIA members and others.
- The AIA is going to start charging non-members for things like transcript services and is going to make some information available exclusively to members.
- The AIA is working to reform the Federal Design/Build process to make it more equitable for architects and is promoting compliance with the 2030 Climate commitment which was in jeopardy of being undermined.
- The AIA is working with the Rockefeller Foundation and Design for Humanity to explore the objective of “Resilient Design”, creating buildings more resistant to severe weather events.
- The AIA has created a Repositioning Scorecard to track progress and report it to members (Paula has copies). A communications audit is underway to improve the way the AIA communicates and evaluate its website.



## MEMBER RESOURCES TASK FORCE (MRTF)

The Board directed that the AIA Management together with the MRTF wind down the Institute’s current revenue-share resourcing model with components in successive 20% reductions over a 5-year period. These other measures were passed:

- The results of the planning shall be provided in an implementation report to the Board in September 2014.
- The planning shall be directed toward a winding down beginning in 2016.
- The current total Contract Documents (CD) revenue share distribution (about \$4m) by the Institute to the components will be maintained at its current level through 2014 and 2015 subject to downward adjustments if revenue declines during that period.
- Each component will continue to receive its current level of CD revenue share funding in 2014 and 2015 subject to downward adjustment if net revenue from CDs decline.

# CONTINUING EDUCATION

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One of the goals of the Architectural Practice Committee is the development of architectural sessions at the SAME national conference and at other major regional conferences, in support of SAME's continued education programs. In addition to assisting with educational events at the National JETC and Regional JETS, the Architectural Practice Committee also coordinates Quarterly Calls open to all.

All presentations during quarterly calls will receive Continuing

Education Credits from the AIA and there is no charge for participating in the calls.

The APC is also contributing webinars to the larger SAME Education Program. In addition to providing valuable information, whenever possible, these webinars will provide AIA continuing education credits.

Future events include a June 2014 webinar on the **new ATFP UFC (4-010-01)**, and a fall presentation focusing on the implementation of BIM across DoD agencies.

Additionally, beginning late in the first quarter of 2014, SAME Headquarters will be making the Committee Webinars available online at a reduced rate for those who were unable to participate on the original air date.

The committee is always open to suggestions from SAME Members regarding topics that would be of interest. Please share your ideas with us. Contact **Rad Delaney, AIA, FSAME**, Vice Chair for Continuing Education at

[delaneyra@cdmsmith.com](mailto:delaneyra@cdmsmith.com)

# SAME CONFERENCES

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## 2014 JETC, May 21 to 23, Orlando

The Architectural Practice Committee once again will play a major role in providing architectural related educational sessions.

- On Wednesday, May 21 from 2:30 pm to 3:45 pm, APC will host 2013 SAME Urbahn Medal Recipient Lecture and our Committee Panel discussion. This session invites the 2013 SAME National Urbahn Medal Recipient to present his or her work. In addition, there will be a panel discussion on how the Architectural Practice Committee can be most beneficial to you and your organization in practice of DoD facility design and construction.
- On Thursday, May 22 from 10:00 am to 12:00 pm, APC will host a session titled "DoD Facility Design & Construction Strategic Focus and Direction". This session invites the lead architects of the Army, the Navy, the Air Force and the VA to discuss the most important strategic focus and overall directions of facility design and construction for their agencies in the next three years, and have an open dialogue with the industry to exchange ideas and feedback of what it takes to achieve these objectives.
- On Thursday, May 22 from 2:00 pm to 4:00 pm, APC will co-host with Facility Asset Management Committee, a session focusing on BIM; also, co-host with Energy & Sustainability Committee a session focusing on Sustainability UFC updates.

Please come to Orlando with us in May!

**Homer Guy, AIA, FSAME**, is the Vice Chair for SAME Conferences. He may be contacted at [homer.guy@jmwaller.com](mailto:homer.guy@jmwaller.com).

# COMMUNICATIONS



**David Packard, RA, PMP**  
*Vice Chair for Communications*

We are beginning to develop a rhythm with this issue (Volume 2, Issue 1) of the APC Newsletter. In the coming weeks and months, I would like to promote a discussion on the content of this newsletter with a focus on its cyclic nature. We may want to consider a schedule of topics that can be repeated each year (i.e. energy and sustainability, technology, design quality/awards, professional practice, lessons in history/the future, planning, etc.), so I'd like to solicit your ideas.

I also want to encourage input from all of you. Any suggestions on format or content and, in particular, your products...written, graphic, experiential...would be greatly appreciated. We like book reports, product reviews, activity reports, and those "random thoughts", along with

anything else you desire.

Finally, help us create an appropriate distribution list and process. While we do our best to include everyone who WANTS this publication on our mailing list, we do get "Undeliverable" responses from many people. While we try to remove them from the list, maybe the delivery failure is a setting on your company's or your own e-mail. We will continue to post the APC Newsletter on the SAME APC webpage, but like the idea of reaching out to you quarterly. If you know someone who would like to receive this newsletter and/or notifications of APC webinars and other events or would like to join the Communications committee, e-mail information to

david.a.packard@usace.army.mil



THE OFFICIAL BLOG OF THE SOCIETY OF AMERICAN MILITARY ENGINEERS

## BRICKS&CLICKS

## PROFESSIONAL CREDENTIALING REIMBURSEMENT

### From the SAME blog:

SAME has launched the Professional Credentialing Reimbursement Program to support SAME Young Members and NCOs obtain credentials that strengthen their professionalism.

The program is intended to help fund exam sitting or registration fees for credentials, certifications or licensures deemed to have intrinsic value to SAME's mission and the architectural and engineering professions. Individuals may apply for reimbursement of up to \$500. Reimbursements to approved applicants will be upon successful completion of exams and submittal of required documentation. For full program details and application forms visit <http://www.same.org/index.php/events/professional-credentialing-reimbursement-program>



# ARCHITECTURAL LIAISONS

SAME Architectural liaisons help coordinate architectural programs within their local SAME post as well as coordinating shared programs between SAME and local architectural organizations (such as American Institute of Architect chapters, architectural schools, Boy/Girl Scout Architectural troops, local high school programs, etc.). If you would like to be a SAME Architectural Liaison please contact Paula Loomis (paula.j.loomis@usace.army.mil, 202-302-8175) or JJ Tang

(junijan.tang@hdrnc.com). If you are already a SAME Architectural Liaison the SAME Architectural Liaison telecons will occur on the following Mondays in 2014 from 1200-1300 EST – 10 March 2014, 9 June 2014, 22 September 2014 and 8 December 2014. Paula Loomis will provide the call-in number before the telecon.

Thanks to all that have volunteered. You are doing great work!!

Post	Name	Email	Company
Alaska	Harley Hightower, FAIA	hhh@gci.net	Harley Hightower
Albuquerque	Roger Basarich	roger.basarich@merrick.com	Merrick & Company
Atlanta	David Caimbeul, AIA, NCARB, FAC-PPM	dcaimbeul@caimbeulandassociates.com	Caimbeul & Associates
Baltimore	Bill McCarthy	bmccarthy@rtkl.com	RTKL
Dallas	Laura Lavelle	Laura.Lavelle@jacobs.com	Jacobs
Denver	Joe Cruz, AIA, NCARB	joe@ihamail.com	Iron Horse Architects
Hampton Roads	Richard Corner	RichardC@hbaonline.com	HBA Architecture & Interior Design, Inc.
Kentuckianna	Luke Leising	luke@guidondesign.com	Guidon Design
Kittyhawk	Drew Titone	Drew.Titone@Woolpert.com	Woolpert
Lake Michigan	MaryAnn O'Hara	Maryanno@fgmarchitects.com	FGM Architects
Las Vegas	Monica Gresser	mgresser@brazenarchitecture.com	Brazen Architecture
Missouri (Whiteman & Kansas City)	Matthew Turner	mturner@yainc.com	YAEGER ARCHITECTURE
New York City	Suzanne DiGeronimo, FAIA	sdigeronimo@digeronimo-pc.com	DiGERONIMO ARCHITECTS
Northern Virginia	William Santer, AIA	wjs@samaha-arch.com	SAMAHA
Omaha	Robert Hailey, Lt Col AIA, LEED GA	rhailey@hdrinc.com	HDR
Pensacola	Yvonne Lee, Assoc AIA	ylee@stoaarchitects.com	STOA Architects
Pikes Peak	Jim Pocock	James.Pocock@usafa.edu	USAF Academy
Seattle	Scott Harm	sharm@belayarchitecture.com	Belay Architecture
St. Louis	Bill Albinson	albinson@teamfourstl.com	TeamFour/Saur
Tampa	Steve Tozer	Steven.Tozer@hdrinc.com	HDR

# PIKE'S PEAK POST

## *Presents Boy Scout Architecture Merit Badge*

SAME's Pikes Peak Post is becoming very well known within the local Boy Scout District. After sponsoring a successful Engineering merit badge class last October, two Architects from the same SAME post decided to offer the Architecture merit badge. With the encouragement of J.J. TANG (SAME's Chair, Architectural Practice Committee) and other national SAME members, Dr. Jim Pocock (Architect and Professor of Architecture Civil Engineering at the Air Force Academy) and Mr. Scott Leister (Command Architect for AFSPC) set out a robust agenda to accomplish all the requirements in a single half day. To improve the flavor of the training, they attended the Engineering class and interviewed other SAME members, like Capt George Suther, (USN NORAD, USNORTHCOM, HQs J42) our SAME post leader and fellow Architect.

Thanks to a well-timed Business merit badge weekend and great advertising by the Local Boy Scout District, the event was sold out within two weeks. Thirty-five scouts plus parents and scoutmasters attended.

The class was held below one of the most famous buildings in the United States, the Air Force Academy (AFA) Chapel, and began with some classroom comparisons between Architects and Boy Scouts. It seems they share the same beliefs in conservation, consideration of the outdoors, respect for fire and sustainability. Next, Jeremiah Johnston from North Star Surfaces, showed scouts examples from his company's unique reusable products like paper stone and used glass terrazzo.

The highlight of the class was a guided tour through



the AFA Chapel (with an Architectural/Structural focus), and the AFA's new \$40M MILCON, Center for Leadership Development, currently under construction. In between tours were discussions on campus planning and design consistency (a.k.a. International Style) and elements of a green roof.

The class ended in a chaotic frenzy with a hands-on drafting session, as scouts tried to measure and identify mechanical, electrical, structural, comm, security and fire components within our classroom.

Jim and Scott plan to teach the Architecture merit badge class again in the future; the world needs more Architects. They are both registered merit badge counselors with the local BSA District.



# PENSACOLA POST

## AIA Northwest Florida 2nd Annual Gingerbread House Contest

SAME's Pensacola Post was the Grand Prize sponsor for the 2nd Annual AIA Northwest Florida's Gingerbread House Contest. **Pensacola Post Architectural Liaison, Yvonne Lee, Assoc. AIA with STOA Architects**, represented the post by acting as the Grand Prize judge.

Members of the local AIA chapter made presentations to 14 fifth grade classes at West Navarre Intermediate School to educate the students about the architecture industry and why architecture is important to every day life. Students were then given the opportunity to purchase a "building permit" for a gingerbread house. Students were also given a "building code" and were instructed to adhere to the guidelines set forth by the codes.

AIA Florida staff served as the "State Code Enforcers" and measured each design for adherence to the building code

and proper set-backs on their lots prior to judging. Buildings that violated the required set-backs and codes were given citations, which were taken into consideration during the final judging.

On Thursday, December 12th, more than 70 students delivered their final designs to the school. That evening more than 150 people assembled in the cafeteria to attend the award ceremony. In addition to the Grand Prize winner, categories judged included Best Roof, Most Humorous, Best Theme, Best Use of Icing, Best Use of Peppermints, Best Landscape, Most Colorful, Most Sustainable, Best Traditional Gingerbread House, and Best Contemporary Gingerbread House.

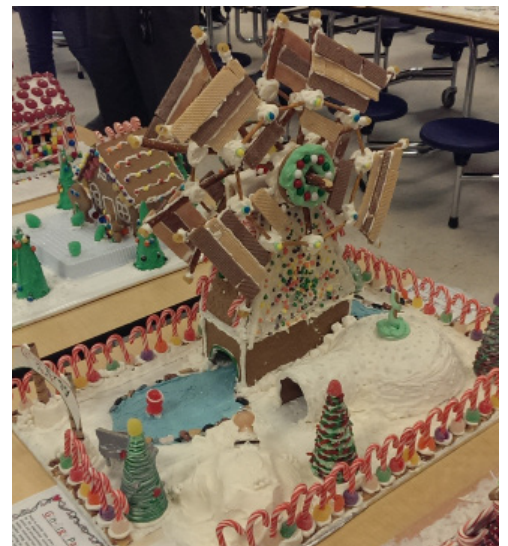
Designs entered in the contest ranged from a gingerbread roller coaster, to a scene in Spider Man and even a Starbucks!



*Emma Carpenter, Grand Prize winning Tudor Style house, with Yvonne Lee, SAME Pensacola Post and AIA Northwest Florida President, Pat Ballasch, AIA.*



*Far Right: Best Roof Winner  
Right: Most Sustainable Winner*



# SERVICE BRANCH LIAISONS

Three APC Service Branch Liaisons have been identified to advise the committee on initiatives benefiting service branch architects and to assist in communications between service branch architects and SAME. The Service Branch Liaisons are listed below. These liaisons have been informing their communities on the opportunity

for participation by architects in SAME training activities and are communicating information about professional and career development opportunities within their ranks. Please do not hesitate to contact them and express your topical interests. Join the dialogue!

Branch	Name	Email
Army	Ed Gauvreau, USACE HQ	edmond.g.gauvreau@usace.army.mil
Navy	Kathleen Reid, NAVFAC Atlantic	kathleen.o.reid@navy.mil
Air Force	Rick Sinkfield, AFCEC	ralph.sinkfield@us.af.mil

## EXCERPT FROM “ARCHITECT”

*The Magazine of the American Institute of Architects*  
*Article on the Role of Public Architects*

A recent (December 2013) article in “ARCHITECT” highlighted the role of public architects in the design of the built environment. The article, titled “**Higher Standards, Public architects vastly improve how we engage the civic realm and impact how capital is invested in the long-term**”, discussed the opportunities and responsibility public architects have to set standards and develop design-process guidelines that benefit the entire design community. The importance of this role has taken on greater significance since the announcement of President Obama’s plan in response to climate change. Rona G. Rothenberg, FAIA, chair of the Public Architects Committee Advisory Group and Ed Gauvreau, AIA (HQUSACE and APC Service Branch Liaison for the Army) discuss the involvement of public architects and the responsibility borne by these design professionals in conjunction with the private sector. “By reaching across private practice, public architects vastly improve the way we move through public space and have a significant voice in how capital is invested in the long term – collaborations with private investors can only strengthen the built environment”, according to Ms. Rothenberg.

The entire article is worth reading and available at  
<http://www.architectmagazine.com/architects/higher-standards.aspx>

# ARCHITECTURAL BOOK REVIEW

## *JULIA MORGAN, ARCHITECT OF BEAUTY*

by Mark Anthony Wilson



*Hearst Castle Facade  
San Simeon, California*

Julia Morgan, Architect of Beauty by Mark Anthony Wilson. Julia Morgan recently was awarded the AIA's Gold Medal, the highest honor that can be given to an architect. She is the first woman to receive this honor. This book helps explain why. Julia Morgan opened her practice in 1904 and completed nearly 750 structures during her 42 years of practice, far more than any other major American architect, including Frank Lloyd Wright. During most of those years she made regular weekly trips to San Simeon to oversee the construction of Hearst Castle, making her average output of eighteen structures per year even more impressive. Together with Bernard Maybeck, she introduced the concept of environmentally sensitive architecture to the West Coast, an architecture that emphasized an open use of local materials and integrating buildings with their environment. Finally, Julia Morgan was America's first truly independent, full-time woman architect. Check out this book or one of the other books about Julia. She was extraordinary.



*Julia Morgan (1872 - 1957)*

□ continued from page 1

to do the right thing by designing and constructing more environmentally friendly buildings. However, we simply just didn't have a great deal of expertise or experience in doing so. We did our research, we chose a certification system and a certification level, and went forward. Years later, with a vastly improved knowledge base, we could easily meet the minimum certification and substantially more, but there were still many of us that needed to be encouraged to do so with various mandating policies. Now, we find ourselves squarely at a point where designing and building high performance buildings is almost second nature and the majority of us have accepted that it is the right thing to do.

However, just like many private industry organizations, the government still has a solid need to market our product. Like anyone else, we need to prove that what we produce benefits the owner (A.K.A the American tax payer). "Self certification." you say? Ah yes, I too, remember the days when many of our organizations performed our own certifications right along with the abysmal success numbers we got when we randomly audited those projects. "But we are so much better at it now." you say? Clearly true, but say we start to perform our own certifications again. First, forget about the additional costs we would incur

that would surely equal and likely exceed those of the established third party certifiers. Then, step back and ask yourself what it means to you when any agency (government or otherwise) says "we did the right thing, trust us." This is ultimately what we all need to consider when we think about the funding that went to "just hang a plaque in the lobby." If these extra expenses help ensure that the energy and water savings we are pursuing will truly be realized for years to come, it will be well worth the effort.

Like everyone else, I continue to be impressed by the knowledge and expertise that we have managed to amass institutionally and even more so by the innovative products that we have produced teaming with our talented partners in private industry. However, the fiscally constrained environment in which we continue to find ourselves demands justification of every dollar the government spends. There is still no assurance that can be equaled by a review performed by an independent third party for certification. Ironically, this ultimately means that for the foreseeable future, we need to spend a little more money to prove we did the right thing with the rest. **APC**

# A DIFFERENT WAY TO THINK ABOUT INSTALLATIONS

*Paula J. Loomis, FAIA, FSAME, LEED BD&C, PMP, APA*

Often people refer to an installation as a small city and apply small city planning principles to it. While it is a small city, it is much more. This article looks at “What is an installation?” “Why does it exist?” “How can we make it perform its function best?” “Why is it important that we take this approach?”

An installation is a platform for launching the weapon system including the people, the weapon itself, and the materials and people to support the weapon system as well as training the warfighter on how to effectively operate the weapon system. Thus, an installation has different functions than a typical small city. The installation should be the most effective, efficient platform so that scarce resources can be used for other missions. If the installation cannot serve this basic mission, the installation does not serve its purpose. Installations also play the small city role, delivering a safe and comfortable quality of life for the warfighters and their families. Knowing that families are safe and cared for allows warfighters to effectively carry out their missions and remain physically and mentally prepared.

**Installation Layout.** So how do we reach this ideal? Installations should be designed in an efficient manner

with a minimum use of facilities, utilities, and roadways. Appropriately compact installations/cantonment areas provide some space for internal expansion, but are compact enough to take advantage of walking, biking and alternative modes of transportation. Appropriately compact installations mean utility and road costs are minimized over the life cycle of the installation. Efficient installations by definition are sustainable and conserve energy, water and land. Conserved land outside of the cantonment areas provides land for anti-terrorism/force protection stand-off measures, environmental habitats, new missions/relocations, and implementation of low impact development (LID) principles. Each installation needs a LID overlay in the master plan that addresses stormwater on an area-wide (not individual project site) basis.

Sprawling installations should be redesigned over the long-term to encourage compact development with these plans incorporated into the installation’s master plan. When building new areas of an installation (or significantly changing those areas), consider orienting the street system and buildings to take advantage of microclimate weather (such as sun or wind for renewable energy or breezes for natural cooling) and minimize any negative impacts of the local microclimate (cold northwest winds, west setting sun, etc.).

Installations should encourage public transportation, ride sharing, carpooling, etc. so employees/families have the option to reduce the number of vehicles. Where public transportation cannot be brought on base, public transportation options should connect to an on-base transportation option (such as walking paths or base bus route). On base housing should be within a bike’s ride of work areas. Off base military or privatized housing should be built near public transportation or if existing encourage local public transportation to connect to it.

**Buildings.** In laying out the installation, functions that work together should be grouped so that workers can walk between those facilities. This allows workers to carpool to work. It lessens the time used for transportation between work areas during the day and may eliminate the need for some government vehicles. Provide support facilities (food, dining halls, ATMS,

## RANDOM THOUGHTS

BY PAULA LOOMIS

“It matters not how strait the gate, how charged with punishments the scroll, I am the master of my fate. I am the captain of my soul.”

Quote by William Earnest Henley. Take time to guide your own path and undertake what is important to you. Good luck in 2014!



*William Earnest Henley*

laundry drop offs, etc.) in these groupings. If this is not feasible, consider alternatives such as food trucks, salad/sandwich drop off locations, and laundry drop off/pick. Similarly co-locate or combine active duty, reserve and guard units with similar missions. The active duty can use the facility during the week and the reserve/guard on the weekend.

Use vegetation to control microclimate weather (such as sheltering buildings with coniferous vegetation to block northwest winds). Use buildings to shelter one another and control the microclimate. Encourage local gardens in/near housing areas (including military family housing and barracks/dormitories).

Take advantage of hot desking, shared conference rooms/classrooms, creative use of outdoor spaces, and similar concepts to reduce facility sizes. Take advantage of telecommuting, flex hours, and similar energy saving measures. When designing the facilities, prioritize energy

saving measures starting with the lowest life cycle cost first.

**Utilities.** Consider centralized renewable energy options for compact cantonment/work areas where they might be more cost effective than individual facility units. Use heat from heat generating facilities (dining halls, computer facilities, etc.) to supply heat to neighboring facilities (dormitories, offices, etc.).

**Conclusion.** Even though an installation is very similar to a small city, the installation plays a larger role. The installation serves as a launching and training platform for warfighters and weapon systems. An installation keeps the family safe so the soldier can concentrate on his/her job. Good planning helps establish the installation as an effective, efficient system that when done well is as vital to the fight as more traditional weapon systems. It is our job to provide the most efficient, effective, sustainable system we can to the war fighter and their families. **APC**



*Andrews AFB was redesigned to provide compact nodes with shared parking.*

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