

NH FORUM

For those who shape the built environment

A Busy Spring for AIANH Education Outreach Programs



AIANH Education Programs were busy this spring with a Box City program at Little Harbour School in Portsmouth and the 2014 AIANH High School Design Competition.

The Box City Program, for elementary age students, is an interdisciplinary program in which participants design and build a scale-model town from the ground up. Children answer the question “What makes a good city?” and learn how they can participate in

improving their built and natural environments. AIANH architects and other volunteers coordinate the event and oversee the program. The program at Little Harbour culminated with an Open House on April 22. Volunteers for the Little Harbour program were Gillian Baresich, TMS Architects; **Tracy Kozak AIA** and **Caleb Sloan AIA**, JSA Inc.; and David Witham, Chairman of the Portsmouth Board of Adjustment. **Scott Vlasak AIA** is Chair of

Cont'd on p. 4



Box City, Little Harbour School, Portsmouth, NH

Published by

AIA New Hampshire

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The editors of the *NH Forum* seek to encourage a lively discussion of design and other topics of concern to designers. Opinions and proposals presented in the newsletter are those of the writers to whom they are attributed and are not a statement of official policy by AIANH, unless so stated.

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NH Forum

Perspective

Point of view from the president of AIANH



Shannon Alther AIA
 President 2014

Good day! If you took the challenge from last month, "Please Draw Today," then you may have found at least one lesson from that exercise. If you did not try the challenge, I am guessing that you can easily relate to what a lesson or two might have been.

- Drawing outcome can be based on your mood.
- Drawing is easy / hard depending on the time of day.
- You would rather use the computer than pen / pencil.
- You hate drawing because you are less than 40 years old.

What I found was that drawing / sketching for 15 minutes was hard to do without a specific task to focus on. How do you determine what is drawn if you have no purpose other than to fill up 15 minutes of your time? I

played with some various ideas and decided to work on multiple smaller images rather than one large one. My result was a collage of thoughts.

Typically when I sketch I have a purpose in mind so doing the actual sketching is not a difficult part of the task. And I almost always sketch only for work purposes. There are the occasional times that I sketch a map or explain something visually, but that is about it.

One last bit on sketching. A pretty cool trick to pull on clients and hopefully solidify your status as a person they should hire (or continue to pay) is to sketch upside down from your position while across the table from them. Having the client see you sketch and do so relative to their position can be very impressive to them. Being able to do this with moderate success has gained me three jobs that I know of.

Conclusion: drawing is fun, challenging and not always useful...but keep drawing so that you do not get rusty. Who knows when you will need this skill, and if the electricity goes down, you can at least remain billable. ■

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Emerging Professionals Network

by Matt Lawton Assoc. AIA, AIA/NH Associate Director



Matt Lawton Assoc. AIA
Associate Director

NCARB and ARE 5.0

Earlier this year, I had introduced information from NCARB regarding the Architectural Registration Exam, and mentioned that in 2016, ARE 5.0 will be released. The new version of the exam tests the candidate's competency with practice and performance based questions, instead of knowledge as previously tested. The exam in version 4.0 was broken into seven divisions. The new format will be broken into six divisions: Practice Management, Project Management, Programming and Analysis, Project Planning and Design, Project Development and Documentation, and Construction and Evaluation. The exams will no longer include a distinct graphic portion, but will instead utilize new technologies to demonstrate ability, such as drag-and-drop exercises or identifying correct locations/"hot spots." Additionally, there will be case studies consisting of scenarios with related resource documents (drawings, specifications, codes) that require the candidate to assess pieces of information and make evaluative judgments.

As with the transition from ARE 3.1 to ARE 4.0, version 5.0 will be delivered at the same time, for a period of at least 18 months. Candidates will have the option to choose to

transition to ARE 5.0 when it is most convenient for them. The rolling clock remains in effect however, so people currently taking the ARE 4.0 should still try to complete it before the transition.

For those who may be starting the ARE process at this time, there is an opportunity to take the AREs in only five sections, as opposed to six or seven. If you are just beginning your journey, focus your studies on three particular divisions: Construction Documents and Services, Programming, Planning and Practice, and Site Planning and Design. By completing those three exams before transitioning to ARE 5.0, one would only need to take two more exams covering the remaining content areas: Project Planning and Design, and Project Development and Documentation. On the NCARB website, there is a credit transition model, showing how the current divisions translate into the new divisions. Information regarding the interactive tools, new question types, and study materials will be released in 2015 and 2016, so continue to visit the website for updates. ■

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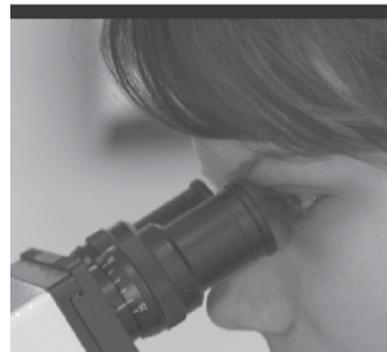
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Details...

The Dearborn Hall Renovations for the City of Manchester has been recognized with three awards. The project, designed by **CMK Architects**, and constructed by **Milestone Engineering & Construction, Inc.**, received a 2014 Preservation Achievement Award from New Hampshire Preservation Alliance, a Historic Preservation Award from the Manchester Historic Association, and a Merit Award from Plan NH for smart growth, social responsibility, and creative approaches to collaboration and cooperation. The project entailed the complete renovations and rehabilitation of Dearborn Hall on Lake Street in Manchester, revitalizing a vacant building and turning it into the offices of the Manchester Community Resource Center (MCRC), Organization for Refugees and Immigrant Services (ORIS) and a Police substation. The project was completed over two phases with assistance from **J5architects** in Phase 1.

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Details...

J5architects was retained by Advanced Kiosks to assist the company with expanding their product and services sales network into the building construction industry. The firm worked closely with Advanced Kiosks President and Owner Howard Horn III to develop an implementation plan for Advanced Kiosks to strategically expand into the \$940 billion annual building construction industry.

A four-phase project approach was implemented to facilitate the firm's building construction industry expansion initiative for 2014.

Phase I – Building Information Models (BIM)

Phase II – Product Specifications in 3 – Part CSI 2014 Master Format

Phase III – Americans with Disabilities Compliance (ADA) – Barrier Free Design

Phase IV – Development of Advanced Kiosks web-based building construction specifiers interface.

J5architects developed a valuable sales implementation plan designed with solutions specifically targeted to the building construction industry, meeting the challenge to assist Advanced Kiosks with their 2014 growth initiative via expansion into the building construction sector.

Fulcrum Associates has announced the addition of Matt Manseau to its Project Management staff. Matt brings 10 years of hands on Construction Project Management and Estimating experience to his position with Fulcrum. He values teamwork and the importance of communication and personal relationships in completing projects on time and within budget.

Matt's role as Project Manager includes design facilitation, estimating, contracting, bidding, project delivery, cost analysis and reporting, and project closeout.

"We are thrilled to have Matt on board, he is an excellent complement to Fulcrum's seasoned project management staff" said Jeff Luter president of Fulcrum Associates.

OUTREACH Cont'd from p. 1

the AIANH Education Committee.

The High School Competition this year was to design a Submarine History Center for Albacore Park. Winners were announced at the May Chapter Meeting (see May *NH Forum*) and some of them went on to present their projects to the Board of Directors of the USS Albacore Museum on May 15. They were: Ian Farr-Szep and Patrick Joseph from Con-Val High School (First Place, Overall), Tori Kort from Pinkerton Academy (Second place, Overall), Matt Demio from Pinkerton Academy (First Place, Graphic Presentation), and Tim Tamulonis from Milford High School (Special Citation for architectural thinking). Rolfe Voltaire, instructor from Pinkerton Academy, discussed student Jacque Greazzo's project (Second Place, Model).

The project was a purely theoretical design program developed by AIANH and with the

permission of Albacore Park, however the design and program requirements do not necessarily reflect the desires of Albacore Park. A big thank you goes to Phillip Munck, President of the Portsmouth Submarine Memorial Association and John Maier, Executive Director, Albacore Park for their assistance and willingness to have the Albacore Museum as our project; and to John Chagnon, Ambit Engineering for providing the site plan.

Sponsors of the 2014 AIANH High School Design Competition are **AIANH** and the **Keene State College Architecture Department**. AIANH member volunteers in this program include **Scott Vlasak AIA**, **Paul Bourbeau AIA**, **Dennis McNeal AIA**, and **Len Pagano AIA**. Both the High School Design Competition and the Box City program are supported in part by grants from the **NH Architecture Foundation**. ■



Tori Kort, Pinkerton Academy. Photos by Scott Vlasak AIA

Ian Farr-Szep and Patrick Joseph, ConVal High School



Structural Column

by Jeff Karam PE

Over Engineered

If you want to excite an engineer, say that his or her design looks “over engineered.” Structural engineers hear this phrase during design, bidding, and even on-site during construction. While we appreciate “rules of thumb” and the experience of builders, there are usually things at work that are not obvious that lead us to select a larger section or say a tighter spacing of joists than one might be accustomed to.

Unique topographical features of a site may necessitate higher snow or wind loads than other nearby sites making comparisons and rules of thumb misleading rather than guiding. For example, in New Hampshire the ground snow load varies from 50 pounds per square foot to 120 pounds per square foot. Local effects or architectural design may contribute to make the snow load variations even higher. Sliding snow from upper roofs and/or wind driven drifts on lower roofs are examples of increased load demand that engineers recognize that others may not.

In residential construction joists selection and design is the most common cause of the claim. It’s quite common that during bidding a supplier will suggest an alternative size to a builder that meets the code but is cheaper than that specified within the plans. So, why wouldn’t the engineer have called out the joist and spacing combination that meets the code in the first place? It’s because the open concept designs that are so prevalent today require long span joists and the code deflection criteria alone does not adequately capture the performance of the joist system. Weyerhaeuser, manufacturers of TJI joists, has developed a rating system that measures the total system performance not based strictly on deflection

but also on predicted user satisfaction. This rating system is far more robust and seeks to eliminate bouncy floors. The rating allows the engineers and architect to provide a more tailored solution. Joists selected with this rating system are likely to be more expensive but the engineer has willfully selected them as the appropriate solution given the demands and owner requirements.

Another factor that may guide an engineer’s selections is the desire for simplicity. Personally, I wish for my plans to be clear which allows the builder to construct what I’ve designed. Trying to achieve simplicity within the plans sometimes means that the repetitive use of a section is favorable. For example, for residential construction I do not believe there is economy in frequently changing window header sizes unless it’s intuitive that the header size should be changed. If you have a group of 3’-0” openings and one header needs to be a (3) 2x8 but the adjacent ones only need to be (3) 2x6 it’s simpler to have each of them be (3) 2x8 if architecture permits this. I then feel more confident that the wrong header will not be provided in the unique location. Of course this example would probably not elicit the assertion of “over engineered” but it is illustrative of a thought process.

Thank you for reading. If you have comments or suggestions for future columns relating to the practice of structural engineering please contact me via jeff@evergreenstructural.com. ■

— Jeffrey Karam, PE is the principal of Evergreen Structural Engineering, PLL, www.evergreenstructural.com



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Patmos...Island of the Revelation

Text & Photos by Bruce Hamilton, AIA

Patmos is an island considered to be the most picturesque and perhaps the most representative of the Dodecanese complex. Its characteristic size makes it possible to view the whole island from the Monastery of St. John the Theologian. The main body of the island consists of a harmonious succession of rocky hills and small fertile valleys running down to an impressive variety of beaches, bays, tiny harbors and inlets. The highlights of Patmos'



architecture can be seen in the beautiful settlement presenting a plethora of white-washed mansions and Aegean style houses that embrace the fortified monastery.

The Monastery of St. John the Theologian is accessible from the end of the Skala road. From there a visitor will walk uphill through a narrow road, lined with tourist shops and cafes. One's first impression of the austere fortress-like style of the massive bare walls is unexpectedly altered by the features of genuine island folk tradition inside the Monastery. On entering, you will see the icon of St. John under a rounded arch. At the end of the vaulted corridor are seven steps leading up to the central courtyard. Paved with pebbles and lined with rooms on higher and lower levels, it combines arches and Byzantine elements in a harmonious whole.

The most important period in the history of Patmos began in the year 95 AD, when the disciple of Christ, John the Theologian,

arrived on the island. It was on this island that St. John wrote his divinely inspired Revelation the Apocalypse, the last book of the New Testament. The Sacred Cave where St. John wrote the Book of Revelation is located between the settlements of Skala and Hora. There, midway up the side of Hora's hill, stands a snow-white complex of buildings, the Convent of Apocalypse. After walking down 43 steps, the pilgrim finds oneself in the courtyard of the Sacred Cavern. The deep calm and silence reigning within it, contains something of the timeless, as though there were no present, only a past and future. In the cavern one can witness the places where St. John slept and wrote the Book of Revelation. About one meter from the floor is a small indentation in the wall which he used to pull himself onto his feet after kneeling in prayer. Photographs are not permitted inside the Sacred Cave. The Sacred Cave of the Apocalypse was declared a world heritage site by UNESCO in the year 2006.



The Monastery of St. John the Theologian has continued as a custodian of Byzantine tradition and the treasures of Orthodoxy. It is also the heart and soul of Patmos. Its guardian monks practice monastic life according to the Eastern Orthodox Church. After 900 years of continuous life in the peaceful and Greek Aegean, the Holy Monastery of the Theologian is now a golden casket of Byzantine, post Byzantine, and Modern Greek spiritual and cultural tradition. One can properly appreciate the numerous spiritual treasures of Patmos when visiting this monastery, experiencing the devout atmosphere of

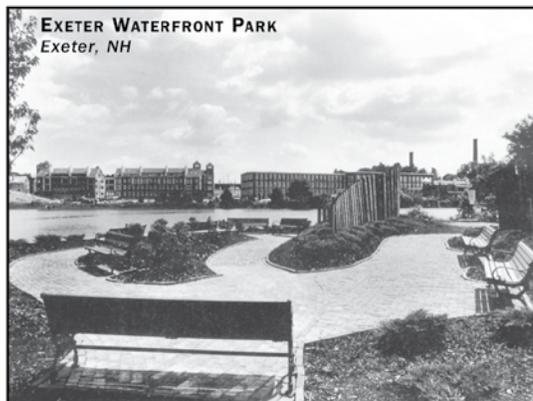
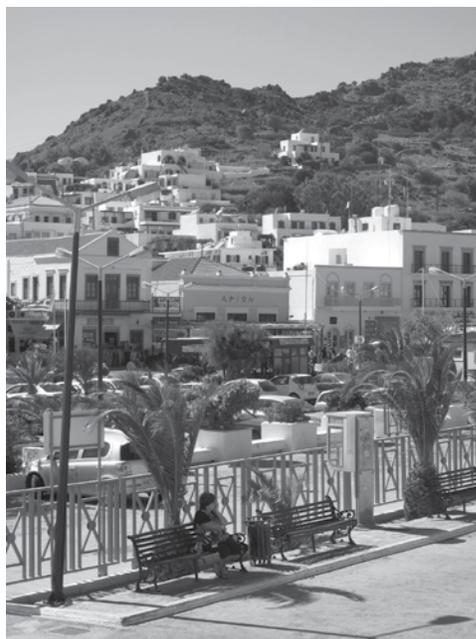


the Holy Cave and the Holy Monastery.

The Island of Patmos is a place of pilgrimage for both Orthodox and Western Christians, as well as the impassioned sand and sun worshippers. Even if Patmos were not as famous as the place where St. John wrote his Revelation, it would still beckon one to discover the aura of divine mystery that flows out of the bareness of the towering rocks...out of the light flooding the boundless sea. The soul longs for that which is unknown yet at the same time so similar for solitude and proximity to the

divine element.

You may go to Patmos to learn about the island's great history, to visit the Monastery with its remarkable religious relics, to pay homage to the Apocalypse or to enjoy the beauty of the island, following a unique itinerary where feelings of melancholy have no place. Leaving, as you sail out onto the open sea, you will close your eyes and dream on the enchantment of time, of the sounds and colors dancing in the light....■



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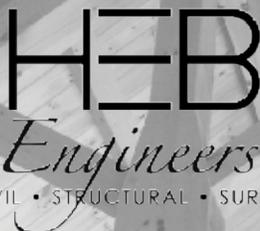
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Job Opportunities, Positions Sought

Job listings and positions sought listings are on the AIANH website: www.aianh.org/careers. To submit an ad, please email ad text to office@aianh.org. Job opportunity listings are free for AIANH members and \$80 for four months for non-members. Listings for Positions Sought are free for everyone. Please include your contact information with your ad listing.

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AIA+2030: Prepare for the New Energy Future...Session Recap

Session II Recap by Dale Doller AIA, LEED AP. Photos by John Hession

This is the second in a series of what will be 10 articles reviewing the AIA+2030 Professional Series AIANH is presenting. For those of you who couldn't sign up for the program, we hope this will give you some important information upon which you can do further research. We also have Powerpoints available from each session. If you are interested in looking at these, please contact the AIANH office at office@aianh.org, or call 603-357-2863.

Session II, April 24, 2014 — Getting to 60: The Power of Targets + Load Reduction

I would like to express our thanks to our presenters Karen Butler, LEED Green Associate, who is the National Manager for the Commercial Building Design Initiative, U.S. Environmental Protection Agency's Energy Star voluntary labeling program; and Chris D. Schaffner PE, LEED Fellow, founder and principal of The Green Engineer, Inc. a sustainable

design consulting firm in Concord, MA. Their willingness to share their expertise provided us with the opportunity to learn, the knowledge to practice, and future success in sharing with our clients and community to make a difference in our environment!

We have now completed the second of our 10 educational presentations designed to provide specific ways to make our built environment energy-efficient. I sincerely hope participants are enjoying this series. This article will be offered each month as a brief review to share some of the important messages offered and maybe questions raised. I hope you find this insightful to read and a helpful reminder of the session experience.

Good design today includes high performance and resilience. It requires more attention to the building systems and envelope than ever before. No longer is it just an esthetic and functional design solution. It takes a lot more



From left: Dale Doller AIA, 2030 Series moderator; presenters Chris Schaffner PE, LEED AP and Karen Butler, LEED Green Associate; and Wes Tator, Realtor, who was the planner for Session II.



Session II exercise, from far left: Steve Burnell AIA, Frank Lemay, David Sherborne AIA, Nick Isaak AIA, Karen Schacht AIA, Dennis McNeal AIA, Brandon Holben AIA, and Sue Mendleson.

planning to successfully design our buildings to perform to a much higher standard. The 2015 IECC release is already under final review for release soon, and it will require much higher performance standards than ever before. New tools, presently available, will be necessary for us to test and confirm that our designs perform.

Karen Butler shared an update on the use of Energy Star’s “Target Finder,” a tool to set an “Energy Use Intensity” (EUI) target for your project. This program assists in setting energy usage and conservation measures that will help in achieving the 2030 Challenge goals and the reduction of greenhouse gas emissions. We experimented with this program and viewed its results depending on the different regions of our country. I think we can all admit, after our short exercise using Target Finder, it takes

some practice and experience in successfully using this tool. Solutions for our project energy strategies depend greatly on the region of the country, where it is located, and sources of energy available whether it be natural gas, coal, oil, hydropower, solar, etc. This tool is only useful for commercial construction. Developers and multi-building owners will find using this tool very useful in evaluating their facilities and determining which are not performing efficiently.

Our second presenter, Chris Schaffner, assisted us in understanding how we can apply this tool effectively to establish energy targets in our projects through examples of his own projects. Early establishment of an energy target is essential. LEED V4, if you choose,

Cont'd on p. 15



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Session IV: June 19, 2014

Skins: The Importance of the Thermal Envelope

Presenters:

- Michael Bruss**
- James Petersen PE, LEED AP**
- Jesse Thompson AIA, LEED AP**
- Margaret Dillon, LEED AP**

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2013 AIANH Annual Report

Report also at www.aianh.org/governance/documents.
Members and sponsors noted in **bold type**.

2013 in Review

Karolina Burt AIA, 2013 President

We began 2013 with the Annual Gala at the Bedford Village Inn where we celebrated architects and their designs. We finished the year by planning for the AIA 2030 Professional Series where we will inspire architects and their designs.

What a year!

- We began on a very sad note, however: In January, NH architecture, preservation, and conservation communities mourned the loss of **Rick and Duffy Monahan**.

- The Environmental Guild began filming a documentary that will tell a story of high-performance and net-zero architecture in New England.

- In March a few of our AIA Board members participated in an annual Grassroots conference in Washington DC, where we “came as we were, left inspired.”

- We surveyed our members to assess the value of the *NH Forum*.

- ArchiPAC, AIA’s Political Action Committee, donated \$2,000 to Senator Jeanne Shaheen’s campaign fund and AIANH board members presented the check at an event in Manchester.

- AIANH members, a group of engineers, building contractors, and code officials began working with the State to set up a NH Architects and Engineers Emergency Response Task Force (NH AEER TF).

- We revised our by-laws to allow for an independent financial review in place of an audit. A review for 2012 was completed in 2013.

- As I’m looking back through 2013 issues of the *NH Forum* our colleague **Bruce Hamilton AIA** went on some amazing trips! He visited Turkey and United Arab Emirates and wrote about both in such a way that nothing short of an actual visit will satisfy.

We had many great programming and educational events, just keep on reading...

Affiliates Committee

Liz LeBlanc, Affiliate Director

The Affiliates Committee represents the AIANH Professional Affiliate Members. These members are not architects but are involved in a related field and have an interest in supporting the field of architecture in the state of New Hampshire and AIANH.

In February 2013, we held a membership drive for new Affiliates. While we had some new and many returning members, we did not reach our goal. Our Affiliate membership is strong, but we are looking to grow the numbers in 2014 and to continue to involve Affiliates in the organization.

Building Envelope Committee

Dale E. Doller AIA, Chair

This committee, initiated in 2013, is a new offering to the NH community. It came about due to the lack of consistent and limited information available in NH for new building envelope design improvements over recent years. The closest similar programs, which have been available to the NH community, are located in Boston, MA, and Portland, ME. Unsustainable travel commitment is necessary to reach these locations.

The goal for the first year was to develop programs, and the first one was presented June 13, 2013 at **Lavallee Brensinger Architects**. The topic was to look at options to eliminate thermal

loss caused by structural members penetrating the building thermal envelope. The presentation was well attended by approximately 35 people from the construction industry and the architectural/structural professions.

2014 is the start of a new 10-session sustainability education series for the NH community called AIA+2030. The committee will choose to be complementary and supportive to this program and once again try for two programs during the coming year.

Disaster Assistance – NH AEER TF

Paul H. Bourbeau AIA, Co-chair

Jonathan Halle AIA, Co-chair

Submitted by **Paul H. Bourbeau AIA**

The Disaster Assistance Committee (now called the NH Architects & Engineers Emergency Response Task Force-NH AEER TF) was initiated to explore the role of AIA and more specifically, AIANH, in assisting communities throughout the state in the event of a natural or man-made disaster. Ultimately, it is the goal of the committee to create the necessary framework within the State’s Emergency Management Network, which allows us to become a recognized resource that can provide assistance in the event of an emergency.

Carolyn Isaak Hon. AIANH has been the driving force behind the committee providing the necessary liaison between various committee members and outside resources. To date she has done a terrific job in organizing the group.

We started out the year with an organizational meeting in May 2013 at **Warrenstreet Architects**. Following that we held regular monthly meetings through November, slowly picking up steam and new members. During the summer, **Carolyn Isaak, Chris Williams AIA, and Paul Bourbeau AIA** had an initial meeting with the Director of Homeland Security, Dr. Perry Plummer; Assistant Director, Steven Temperino; and Deputy State Fire Marshall, Max Shultz. They were very supportive and enthusiastic about our group and offered unexpected support to our efforts. One purpose of the meeting was to inform them of our efforts to expand the Good Samaritan law to include engineers and architects. The expansion would grant civil immunity to licensed engineers and architects rendering assistance in an emergency in the absence of gross negligence or willful misconduct. In ad-



Barry Brensinger AIA was the recipient of the 2013 Clinton Sheerr Award for Excellence in NH Architecture, awarded by **Patricia Sherman FAIA** at the January 2013 Awards Gala. Photo by John Hession



The 2013 AIANH Board of Directors: Scott Vlasak AIA, Matt Lawton Assoc. AIA, Shannon Alther AIA, President Karolina Burt AIA, Sheldon Pennoyer AIA, Liz LeBlanc, Paul Bourbeau AIA, Dale Doller AIA. Missing from photo: Jay Purcell AIA, Caleb Sloan AIA, and Katie Sutherland AIA.

dition, we asked them for help in drafting our MOA (Memorandum of Agreement). We walked away from that meeting very encouraged.

In December, the NH AEER TF organized a training event at the State Fire Academy for members of the team. ICS-100, Introduction to the Incident Command System, was offered free of charge by the State at the State Fire Academy and was attended by 15 members. It was a broad-based training designed to introduce participants to the emergency management system that is employed during all emergencies at the State level. It was a good introductory course, and everyone walked away with a better understanding as to the organization and methodology used to organize disparate groups of volunteers and professionals during an emergency.

We will offer follow-up training in January 2014 – the SAP+AEER training program, taught by Rhode Island Architects & Engineers Emergency Response Task Force 7. (*Ed. Note: This was held Jan. 18 with 42 attendees. The State once again offered its facility to us.*) SAP+AEER is a rapid assessment program structured to identify the safety of buildings immediately following a disaster. It is designed to specifically classify buildings into three different categories, assigning the appropriate placard to each build-

ing following an assessment by a trained team of architects, engineers, building officials, and building professionals.

Special recognition goes to **Paul Hemmerich AIA** and **Chris Williams AIA** for their hard work in getting the Good Samaritan Bill, SB209, before the Legislature. (Followup: At this printing, we are disappointed that SB209 failed in the House, but we plan to work hard this year to bring the Bill before the Legislature again in 2015 with better results, therefore allowing us as a group to finally be recognized at the State level as a true resource during an emergency. We continue to work with the State refining our MOA and exploring ways to enable us to participate should a disaster occur in absence of the Good Samaritan Law.)

Design Awards

Caleb Sloan AIA, Chair

2013 saw another successful Awards Program, starting with the Awards Banquet January 11 at the Bedford Village Inn. There were 39 projects submitted; we distributed two honor awards, five merit awards, three commendations, and two People's Choice awards. The jury consisted of four members from the Rhode Island

chapter. **Spaulding Brick Co.** and **Charron Inc.** were our sponsors.

Award winners are highlighted on the AIANH website and received notice in NH newspapers and magazines.

The 2013 Exhibit made worked its way through the State with stops at Sulloway & Hollis, PLLC (February), the Manchester-Boston Airport (April), Church Landing at Mill Falls, Meredith (June-July), Portsmouth Public Library (August), Lebanon City Hall (September), and NHTI Concord's Community College (October).

The 2014 Call for Entries, with submissions due in October 2013, marked our transition from binders to electronic submissions.

Education Committee

Scott Vlasak AIA, Chair

The Education Committee of AIANH is responsible for delivering educational programs to NH students ages K-12. Built-environment education is an important part of a balanced and comprehensive school curriculum. The Learning by Design programs and activities designed and promoted by the AIANH Chapter are well-constructed curriculum units which have been incorporated in the existing curriculum of our elementary, middle and high schools in New Hampshire.

These activities allow our chapter to bring into the classrooms valuable knowledge about the man-made environment as well as its effect on the relationship to the natural environment. For our children who one day must live and work in a modern industrial society, this knowledge is critical if they are to be thoughtful and active citizens.

The Education Committee assists with forms, meetings, registration logistics, certificates and documentation of our currently available built-environment programs:

- ShoeBox Clubhouse (Elementary)
- Neighborhood Walking Tours (Elementary)
- Box City (Elementary-Middle School)
- Bridges and Structures (Middle School)
- Introduction to Architecture (Middle School)
- Annual High School Design Competition (High School)

The fifth Annual High School Design Competition 2012-2013: Students designed a Social and Media Center. Winners were announced in the NH Forum and received cash prizes at our Chapter meeting at Keene State College in April. Sponsors for the 2013-2013 program were: **Keene State College Architecture Department, Dale Doller AIA, Shannon Alther**

Continued on p. 12

AIA, Wayne B. Geher - Nathan Wechsler Co., Sheldon Pennoyer AIA, Liz LeBlanc, Matthew Lawton Assoc. AIA, Karolina Burt AIA, and Katie Sutherland AIA.

Box City, Windham Middle School, Windham, NH – Spring 2013: This after-school program ran for five weeks and was supported by local Community Officials and parents. Students were guided through the process by weekly visits by AIANH volunteers and worked four days a week after school on the project. (*Ed. Note: Scott Vlask AIA is too humble to say so, but he was the sole AIANH volunteer for this program!*) The program culminated in an Open House where students presented the City and design process to their parents.

The major goal for 2014 will be to increase our pool of volunteers in order to strengthen the knowledge about the Learning By Design NH programs to our members. By regionalizing our volunteers, we can offer more opportunities for AIANH members to get involved locally.

Secondly, we must increase our efforts to get back into classrooms during regular school hours. Requests for after school programs have become more common, but it seems the value is somewhat lost since students are tired from a full day of schoolwork and not all students can participate.

Thirdly, we will seek sponsorship for the programs we offer. The annual high school design competition offers cash prizes to the winners, which can hopefully be obtained through a commitment of annual sponsorship of NH based companies. Smaller sponsorships could be sought within local communities where Learning by Design programs are being offered on a case by case basis to help with purchase of supplies, etc.

One potential idea to work towards the above goals would be to focus on our existing walking tours program which has been very successful in the past. The program has several benefits:

- It allows local architect volunteers to take “ownership” of the program by tapping into the knowledge they have of their own communities, making volunteering more personal and rewarding. We have developed a complete “generic” workbook which can be easily altered with a route map and sites specific to each community.

- Based on previous feedback from Nashua schools, Neighborhood Walking Tours tie in very well to the educational objectives for the State of NH for fourth grade students when they are typically learning about their communities, its history, and local government. This will be key to getting these programs successfully integrated during normal school hours. There are no special space needs or time constraints since a walking tour program can consist of one or two classroom sessions.

- There is a lot of flexibility to tailor these programs to each school’s needs according to teacher input.

- By keeping the program specific to a community, sponsorship efforts would be more focused by seeking donors in that community. This money is needed for supplies, incidentals, and bus transportation (if required).

Emerging Professionals Network

Matt Lawton, Assoc. AIA, Associate Director

The year started out with a name change and combination of committees. In order to more appropriately align with AIA Nationals description of committees, the Young Architects Forum (YAF) and the Intern Development Committee (IDP/National Associates Committee (NAC)) were combined to form a unified Emerging Professionals Network (EPN), headed by the AIANH Associate Director and the State IDP Coordinator, **Nicole Martineau AIA**, who is additionally the New England YA Regional Director.

The New Hampshire Skills USA High School Drafting Competition took place on March 15, 2013 at the Seacoast School of Technology in Exeter, NH. The competition was organized by Kate Krumm (District Computer Teacher, Sanborn Regional School District). Eight students participated from regional high schools, and one student participated in the post-secondary school program. It is a great opportunity for high school students to develop an interest in architecture, and we hope the program grows.

2013 also was the reemergence of the Draughting Club, started in 2011 by Nathan Stolarz AIA. We attempted scheduling a bimonthly event, but it is finding dates when people can attend. We did have success in Manchester in February, with four people from local firms attending, and even greater success in Keene in June, with 14 people from New Hampshire and southern Vermont coming out.

In October, a speaker from NCARB came to discuss the licensing and certification processes and procedures. **Lavallee Brensinger** was kind enough to let us use their space, and **AIANH** and **TMS Architects** sponsored the event, providing pizza and beverages to the attendees. The hour and a half presentation was well received by upwards of 20 young architects, and was followed with a question and answer period that addressed individual concerns. I think hosting an event like this every couple of years would be beneficial to the emerging architects in the state, but perhaps a representative of the state licensing board would also be helpful to answer questions directly about state procedures.

With the committee change at the start of the year, it gave the opportunity to have a design competition for a new logo. We received two submissions. A design by Adam Lemire of LineSync Architecture in Wilmington, VT, was selected and used on email blasts and for the Emerging Professionals Design Competition.

The EP Design Competition was released at the start of September, with a theoretical project focused on providing a park facility to a local neighborhood in New Castle, NH. There were 11 entries, with the winning designs coming from Portsmouth area interns. The competition website, with the results, is at aianh-epdc.weebly.com.

One of the biggest efforts this year was to increase communication. Email blasts notifying different events and issues are being sent roughly once a week, to avoid an inundation of

AIANH 2013 Financial Report

2013 Budget Income

Affiliate Membership	11,068
AIA Membership	51,188
AIA Revenue Sharing	43,194
Annual Awards 13	12,145
Annual Awards 14	13,298
Bank Int.	5
Grants	3,710
Misc.	526
Publications	11,315
Programming & Sponsors	28,750
Total	175,199

2013 Budget Expense

Awards Program 13	20,971
Awards Program 14	3,000
AIA Conferences	3,025
AIANE Dues	421
Board Expense	1,544
Donation	325
Operating Exp. & Admin.	105,342
Publications	7,971
Public Relations	787
Programming	16,929
Programs, dedicated	4,542
Total	164,857
Total Inc/Exp 2013	10,342

Net Worth as of 12/31/13

Checking account	28,206
Reserves: Investment Savings	51,286
TOTAL 12/31/13	79,492

For more details on the Financial Report, see the complete 2013 Annual Report, on our website: www.aianh.org/governance/documents

Please contact the AIANH office if you have any questions about the Annual Report, 603-357-2863, office@aianh.org.

communication that can be ignored or deleted without reading. The Facebook page is also being maintained with upcoming events and notifications of changes to reach a larger audience. The contact list has also been maintained and increased, as we identify new interns. Going forward, I would like to increase the number of Draughting Club events and their attendance. There is limited interest in ARE study groups and sessions, with people located all over the state. But additional sessions for Structures, Mechanical, and Building Systems would be helpful, as well as a session for contracts led by either practicing architects or a lawyer.

Environmental Guild

David Ely AIA, Chair

The Environmental Guild is the NH arm of the AIA Committee on the Environment (COTE). It is comprised of architects and others who have a stake in sustainability in the built environment. The goal is to work with an integrated group to develop educational and other programs to promote environmental responsibility.

The Guild has continued its work on the NH High Performance Building documentary. **John Hession** is leading this initiative, assisted by **Michelle Thornton**. We saw a screening of the first project to be covered, Tin Mountain Nature Learning Center, designed by **Christopher P. Williams Architects**. This segment is now complete and includes footage of the building and interviews with Director Mike Cline, other staff members, Chris Williams AIA, and Steven Strong from Solar Design Associates. They are now filming Beth McGinn and Ruth Smith's less-than-zero-net-energy house and conducting interviews with them and others involved in design and construction. Other projects are under consideration, and we are actively looking for net-zero and carbon neutral projects. Once a few projects are completed John will be seeking additional grant funding.

Discussion began about our next (7th!) Integrated Design/Integrated Development Conference, probably in 2015.

The Guild was asked to partner with AIANH to plan and implement the AIA+2030 Professional Series. Many Guild Members individually took on planning roles, and this has re-kindled interest and increased participation in all Guild activities. Planning the AIA+2030 sessions requires seeking out appropriate speakers and working with them to make sure the material presented falls into the curriculum designed by AIA and Architecture 2030 and that session content is not redundant with other sessions.

On April 13, 2013 the Guild presented a session at the Local Energy Solutions Conference



February 2013 AIANH Chapter Meeting at the Service Credit Union in Portsmouth.

Photo: John W. Hession

at Winnesquam Regional High School, on the topic "Net Zero Building – Really"? The presentation panel included Guild members **Kate Hartnett Hon. AIANH**, **Kimberlie Hoffman**, **Dana Mosher**, and **Chris Williams AIA**, and was augmented with George Brooks, Brooks Appraisal; Margaret Dillon, S.E.E.D.S.; and Peter Thompson, Bank of NH.

The monthly meetings are open to all who wish to participate in facilitating environmentally responsible work in the built environment.

Fellowship and Honors

Dale Doller AIA, Chair

The committee's responsibilities are as follows:

- Identify and recommend to the AIANH Chapter Board non-architect individuals who should be considered for Honorary Membership to the Chapter.
- Recommend and work with potential AIA member architect candidates to submit to AIA National for consideration for national Fellowship award.

The committee recommended **Jennifer Goodman** and **Phyllis Stibler ASID** to the AIANH Board for Honorary Membership to the NH Chapter. They were approved and honored at the 2014 Annual Awards Banquet.

There were no individuals submitting for AIA Fellowship this year.

Legislative Affairs

David Udlesman AIA, Chair

With 424 members, the NH General Court is the largest state legislature in the United States, and the fourth largest English speaking legislative body in the world. The AIANH Legislative Affairs Committee is tasked with keeping an eye on what these folks are talking about and how it might affect the design and construction community. Here are some of the bills that we tracked in 2013.

HB113 - This bill permitted erection of a building on a lot that has access to a class VI or better highway via a private right-of-way. It passed the house but stalled in the senate.

HB156 - This bill clarified the appointment process for the state fire marshal and clarified the fire marshal's authority to issue citations. This bill was signed into law.

HB215 - This bill required municipalities that adopt land use ordinances to allocate no less than five percent of their dwelling units to workforce housing. It went nowhere.

HB278 - This bill authorized an applicant to offer installation of fire suppression sprinklers as a condition of local permit approval. This bill was signed into law.

HB347 - This bill authorized cottage housing development as an innovative land use control. This bill passed the house but stalled in the senate.

HB531 - This bill allowed towns and cities to adopt a property tax exemption for farm buildings and structures actually and exclusively used for farming. This bill went nowhere.

HB619 - This bill prohibited images of a person's residence to be taken from the air by a satellite, drone, or any device not supported by the ground. This bill "died on the table."

SB43 - This bill enabled towns and cities to appraise certain qualifying historic buildings at a percentage of market value in order to encourage the preservation of the historic buildings. This bill was signed into law.

SB80 - This bill allowed towns and cities to add historic structures in the municipality, whose preservation and reuse would conserve the embodied energy in existing building stock, to the community revitalization tax relief program. This bill was signed into law.

SB185 - This bill established a commission on housing policy and regulation to identify and reduce legislative and administrative barriers to the creation of affordable housing. This bill was signed into law.

Also of note, effective January 2013, NHRSA 447:2 extended explicit mechanic's lien protection to "design professionals" provided certain requirements are met.

Continued on p. 14

Details...

The renovation of the Liberty Utilities Corporation building in Lebanon, with architectural services by **Lauer Architects, PA**, is underway by **North Branch Construction, Inc.** and will be completed in August.

Construction includes the selective demolition of 5,400 square feet of existing office space located in the western half of the building which will be renovated into a work area for the company's call center and customer service employees. The other half of the building will remain occupied by the company's installation and maintenance department throughout construction.

J5architects received a 2014 preservation award from the Manchester Historic Association for work on the Bakersville Elementary School Project.

The project was a multi-year multi-phased project over three fiscal year funding allocations. J5architects worked with the City of Manchester Facilities Department providing design solutions for building remediation, alterations and infrastructure upgrades of this significant city-owned structure.

ANNUAL REPORT *Cont'd from p. 13*

Programming Shannon Alther AIA, Chair

2013 was a busy year for AIANH programming. We started off with our 29th Annual Awards Banquet at the Bedford Village Inn on January 11 with 177 attendees. Our February event was a tour of the Service Credit Union in Portsmouth, designed by Gund Associates. The meeting, sponsored by **Office Resources** and **Knoll**, attracted 60 attendees.

In March we toured Stonyfield Farm in Londonderry. **Design Group Facility Solutions** in Concord designed their expansion and renovations, and 48 people enjoyed the opportunity to get behind the scenes at the yogurt-producing plant. April was our annual meeting with the **Keene State College Architecture Department**, a popular event, that brought in 108 people including KSC students, AIANH High School Design Competition students and parents, KSC faculty and AIANH member architects, associates, and affiliates. The speaker was Peter Hedlund ASLA of Sasaki Associates in Watertown, MA. **Rist Frost Shumway** was our sponsor.

On May 16, 53 people toured the Bauer and Lindt buildings in Stratham, projects of **Udelsman Associates** and **Bruce Ronayne Hamilton Architects**, respectively. The event was sponsored by **Office Interiors** and **Haworth**, both involved with the two projects.

In June we had a joint meeting with Plan NH, highlighting scholarship distribution from both organizations, with 42 guests. **Pella Windows & Doors** was our sponsor for this event. In June we also had our first Building Envelope session about Structural Breaks (See Building Envelope Committee). On a beautiful evening in August a few of us joined NH/VT ABC for their annual Boat Cruise around the Isles of Shoals and Portsmouth Harbor.

September started out with a tour of the Montessori School in Hollis, NH, designed by **Windy Hill Associates**. 49 attended, and **CertainTeed** was the sponsor. On September 19 we held a special presentation on legal issues important to the profession by **Jeff Alitz Hon. AIANH**, Thomas McCraw, Matthew Leary, and Michael Weinberg from LeClairRyan; Brett Gough, Ames & Gough; and John Donovan, retired from CNA Insurance Co. **LeClairRyan** gifted the refreshments for this event.

83 people made the trip to Hanover in October to view the new Black Family Visual Arts Center at Dartmouth, designed by Machado Silvetti. **Office Resources, Knoll, Yusen, and AW Hastings/Marvin Windows and Doors** sponsored this event.

Rounding out the year, our final 2013 Chapter Meeting was November 7 at the Bridges House, the official Governor's residence, in Concord. **TMS Architects** worked on this renovation and talked about the process. **AW Hastings/Marvin Windows and Doors** sponsored this event. We had 38 attendees, and the drinks were donated by **A&B Lumber**. ■

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Construction Summary

Project: Parkland Medical Center Behavioral Health Addition & Renovation

Location: Derry, NH

Owner: Parkland Medical Center

Architect: JSA Inc.

Engineers: RDK Engineers, JSN Associate

Gen. Cont.: Hutter Construction Corp.

Project: East Rochester School Expansion & Renovations

Cost: Approx. \$10,000,000

Location: Rochester, NH

Owner: Rochester School Department

Architect: Lavalley/Brensinger PA

Engineers: Altus Engineering Co.,

**Construction Summary is provided by
Construction Summary of NH, Inc.
734 Chestnut St., Manchester, NH 03104**

Fitzmeyer&Tocci Associates,

Foley Buhl Roberts & Associates

Const. Mgr.: Hutter Construction Corp.

Project: Woodbury Family Practice Medical Office Renovations

Location: Durham, NH

Owner: Appledore Medical Group

Architect: AG Architects PC

Gen. Cont.: Martini Northern Inc.

Project: Moharimet Elementary School Addition & Renovations

Location: Madbury, NH

Owner: Oyster River Coop School District, SAU 5

Architect: Stephen Blatt Architects, Portland, ME

Engineers: Tighe & Bond, Bennett Engineering, Pinkham & Greer Consulting Engineer

Const. Mgr.: Bauen Corp.

2030 Cont'd from p. 9

requires establishing an energy performance target no later than the schematic design phase. One of Chris's suggestions to make your target easier to attain was to reduce energy demands and loads early in the project design. And to be successful, you must start early in the programming stage, reinforcing what we heard in the first session about how the integrative design process works. Early modeling allows the opportunity to:

- establish "what ifs" and map out design solutions and scenarios,
- improve building performance,
- resolve complicated questions,
- reduce risks,

It also enables your project to:

- qualify for third party funding,
- attain tax credits,
- meet regulatory requirements,
- satisfy LEED requirements.

We must remember however, design simulation is only as good as the follow-through. The most important part in making the building energy efficient is its actual performance. Care during construction must be taken to insure the

performance. Otherwise, all is wasted.

I hope you collected some other great thoughts and comments and that this has opened your mind to more questions on how we design high performance, resilient buildings in the 21st Century. I strongly encourage you to please share your comments and thoughts with me! Send them to me at dale.doller@lbpa.com, and I will be happy to share them here with everyone.

Thank you to our 60 attendees for having the forethought to see value in this educational series. Hopefully this program encourages you to strive for higher performance, sustainable, regenerative, energy efficient design solutions for our built environment!

Thank you to our sponsors for their support of this important educational series and their belief and dedication to sustainability. Platinum Sponsor: **Bensonwood**. Gold Sponsors: **Eckman Construction, Milestone Eng. & Construction Inc, ProCon, RPF Environmental**, and **Martini Northern**. Session II Silver Sponsor: **Bellettes Building Products Specialists**. ■

Details...

UK Architects, PC announces the promotion of Adam Lornitzo, LEED AP and Diane Hall to Associate level in the firm.

Starting his work with UK Architects as a part-time intern while in high school, Adam went on to earn an Environmental Design degree from the University of Colorado, and is currently completing a Masters of Architecture degree through distance learning at Lawrence Technological University. Adam brings a strong background in construction technology through past work in construction and architectural work on the Mississippi Gulf Coast after Hurricane Katrina. As a firm Associate, Adam will be involved in more firm leadership and management of projects.

Diane has served in the role of Office Manager for 10 years, providing necessary financial and administrative skills in accounting, budgeting, financial reporting, HR and benefits administration, payroll, and other organizational duties. Her understanding of the practice of architecture and financial management has contributed significantly to the success of the firm. As a firm Associate, Diane will continue to provide financial and organizational guidance to the firm at a leadership level.

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Calendar of Events

June 5 AIANH Chapter Meeting: Historic Castle in the Clouds Site Tour with reception, dinner, and presentation. **1.5 AIA LUs.** www.aianh.org/news/aianh-events

June 5-6 2014 NH Planners Association Annual Conference "The Art of Place-making," UNH, 8:00 am - 4:00 pm each day. More info: www.aianh.org/news/other-events.

June 6 Nominations due for Visualizing Density in NH. Sponsored by NH Housing Finance Authority and Plan NH. Information at: www.nhhfa.org.

June 6 ACX 14: Vermont's Architecture & Construction Expo:Technology in Design and Construction, presented by CSI-Vermont and AIA Vermont, Hilton Hotel, Burlington, VT, 8:00am to 6:30pm. Topics include BIM model sharing, digital fabrication in design and manufacturing, designing office space to suit different personalities. Tours. Exhibit Hall. **5 AIA LUs (2.5 HSW)** Link to more information at www.aianh.org/news/aianh-events

June 11 Plan NH Scholarship and Fellowship Awards and Dinner, The Centennial Hotel, Concord, 5:30-8:00 pm. Info: www.aianh.org/news/other-events

June 11 Complying with ADA Standards for Accessible Design, The Yard Restaurant, Manchester, NH, 8:00am to 4:30pm. **Jerry R. Tepe FAIA** and **Cheryl L. Killam** present a workshop on complying with Federal Accessibility Requirements and Applying the 2010 Revised Standards - Technical Standards, 6.5 AIA HSW LUs. Register at www.half-moonseminars.com.

June 19 Session IV, AIA+2030 Professional Series, Audubon Center, 8:00 am-12:30 pm.

June 26 Visualizing Density in NH, Red River Theatre, Concord, 1 pm. Winners of the third segment of good examples of density/compact design will be announced, followed by a talk and reception. Info: www.nhhfa.org.

Sept 4 AIANH Chapter Meeting with GSLA, The Fells Historic Estate & Gardens, Newbury, NH. More info to come.

Sept 17 Plan NH Annual Golf Event, Pease Golf Course, Portsmouth, www.plannh.org

Most up-to-date calendar at: www.aianh.org/news/aianh-events

NH Forum

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Photo of the Month



Les Braves Sculpture on Omaha Beach, Normandy, France
Photo by Chris Carley AIA, CN Carley Associates, November 2013

Les Braves is a war memorial on the shores of Omaha Beach in the village of St. Laurent-sur-Mer. It commemorates the fallen American soldiers of World War II, who lost their lives on the beaches of Normandy 70 years ago, June 6, 1944. The memorial represents three elements: The Wings of Hope, Rise Freedom, and the Wings Of Fraternity. French sculptor Anilore Banon, created the monument in 2004, commissioned by the French government to commemorate the 60th anniversary of the D-Day Invasion Of Normandy. In the center, there are seven stainless steel columns and a group of five columns that curve upwards, two columns stand upright, with the tallest reaching 30 feet. Stainless steel wings gracefully stand on both sides. Intended only as a temporary art piece, the sculpture still stands on the shores of Omaha Beach widely due to public interest and petition. The sculpture has been described as a blend of art and nature and has been able to withstand the forces of nature surprisingly well.

We Need More Photos!!! Do you have an interesting photo? Why not send us one to print? 300 ppi jpegs, approximately 4 x 6 inches, BW or color. Send along a title, brief caption, and your name, to office@aianh.org.