



AIA New Hampshire

forum

For those who shape the built environment



Applecrest Farm: Photo by Greg West

AIANH Chapter Meeting & Pig Roast at Applecrest Farm May 26



Our May Chapter Meeting will be at Applecrest Farm, hopefully when the trees are in full blossom (though we can't guarantee that!).

Nearly a century ago, an "Apple Train" ran its weekly route from the heart of Boston to the rolling orchards of Applecrest Farm. People mostly drive there now, but the farm remains as New Hampshire's oldest and largest apple orchard. It's the oldest continuously operated apple farm in America: four generations of the Wagner family have worked the land, dedicated to a simple mission of sustainably growing the finest fruit and vegetables available.

Some four years ago, the owners of Applecrest Farm came together with the design/build team of **Alba Architects** and **Martini Northern** to begin the journey that would result in the new 10,800 square foot "barn" that houses a retail farm-stand, bakery, and small farm to table restaurant, as well as the associated backup functions of storage, prep areas, and of-

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Other Upcoming AIANH Events

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June 9: 2030 & Beyond -
Zero Net Energy Homes
& Deep Energy Retrofits:
A View from the Trenches

June 16: NH Architects
& Engineers Emergency Response
Team - Program for Current &
Prospective Members

June 30: AIA New Hampshire
Revives the House Tour



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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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Perspective

Point of view from the President of AIANH
Jay L. Purcell AIA



Each year our Chapter president attends the AIA convention including the Business meeting of our AIA national organization. This May I have the honor of representing our Chapter at the event in Philadelphia May 19-21, and casting the Chapter votes for the candidates for national office, and the various resolutions. I have recently spoken with two of the candidates up for election, and plan to learn more about the others before the event. I have also been reviewing the resolutions which are presented at the business meeting. As you might imagine some are simple resolutions of appreciation, honoring groups who have contributed their time and energy to organizing the event.

One of the resolutions that has been presented in past business meetings is on the agenda for consideration again this year.

No, I don't mean one of the appreciation resolutions, of which there are six. This is a resolution regarding a very serious matter relating to an event that many would like to forget. But there are quite a few inquisitive architects who feel it is a civic duty as registered design professionals to be a voice for leadership on an issue they believe remains to be adequately explained.

It has been almost 15 years since a 47-story high rise building known as WT 7 (World Trade Center Building 7) collapsed symmetrically in what some say was less than 7 seconds at 5:20 pm on the afternoon on September 11, 2001. This was many hours after the tragedy of that morning, when the twin towers came down. Many knowledgeable building experts have questioned the official explanation regarding Building 7, and some concerned professionals are still pursuing the mystery. At least 51 architects have sponsored this resolution and are asking

Continued on p. 14

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Emerging Professionals Network

Point of view from the AIANH Associate Director & EPN Chair
Tony Nazaka



Eames' Advice for Students

The following are handwritten notes by Charles Eames; January 1949, Part II: Speeches and Writings series, Charles and Ray Eames

Papers, Manuscript Division, Library of Congress, Washington, D.C.

- Make a list of books
- Develop a curiosity
- Look at things as though for the first time
- Think of things in relation to each other
- Always think of the next larger thing
- Avoid the "pat" answer—the formula
- Avoid the preconceived idea
- Study well objects made past recent and ancient but never without the technological and social conditions responsible
- Prepare yourself to search out the true need—physical, psychological
- Prepare yourself to intelligently fill that need

- The art is not something you apply to your work
- The art is the way you do your work, a result of your attitude toward it

- Design is a full time job
- It is the way you look at politics, funny papers, listen to music, raise children
- Art is not a thing in a vacuum—
- No personal signature
- Economy of material
- Avoid the contrived

- Apprentice system and why it is impractical for them
- No office wants to add another prima donna to its staff
- No office is looking for a great creative genius
- No office—or at least very few—can train employees from scratch
- There is always a need for anyone that can do a simple job thoroughly

- There are things you can do to prepare yourself—to be desirable
- Orderly work habits
- Ability to bring any job to a conclusion
- Drawing feasibility
- Lettering
- A presentation that "reads" well
- Willingness to do outside work and study on a problem . . .

- Primitive spear is not the work of an individual nor is a good tool or utensil.
- To be a good designer you must be a good engineer in every sense: curious, inquisitive.
- I am interested in course because I have great faith in the engineer, but to those who are serious (avoid putting on art hat) Boulder Dam all's great not due engineer
- By the nature of his problems the engineer has high percentage of known factors relatively little left to intuition (the chemical engineer asking if he should call in Sulphur) ■

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 \$320 for four months for non-members. Listings for Positions Sought are free for everyone. Please include your contact information with your ad listing.

Submit Your Details...

Do you have an interesting job on the boards or one that is newly completed? How about a new hire, a promotion at your firm, or someone had a baby? Maybe you've recently received an award or had your project featured in a magazine?

Send us the information and we'll print it in our "Details..." columns. Email to office@aianh.org. Photographs can also be used (300 ppi).

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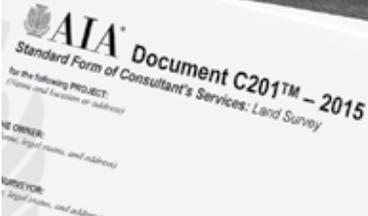


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Peruvian Immersion

by Michael Kowalchuk, Manypenny Murphy Architects



“Mother Earth, witness how my enemies shed my blood,” was the dramatic epilogue of the Incan Empire, with the execution of Tupac Amaru, the final Sapa Inca (king). Yes, Tupac Shakur was named after him. Despite the violent end of the Inca Empire, the descendants of Peru’s indigenous inhabitants have had the last laugh in many ways.

Quechua and Aymara are both official languages in Peru and millions speak them as a first language. The Catholic cathedrals built upon the ruins of Incan palaces and temples are full of... curiosities. Bodacious Virgin Mary’s are in fact clever representations of Pachamama, or Mother Earth. Her expansive dress is a metaphor for the fertile, mountainous landscapes of the Sacred Valley. The Spanish exploited thousands of indigenous slaves to construct Cusco’s cathedrals. While the Spanish called the shots, the indigenous people of Peru did the work and were able to preserve their aesthetic traditions.

While some indigenous artists were given Spanish names and sent to Europe to learn from the masters, they were able to graft their own religious traditions onto the works they were commissioned to create. In a depiction of the Last Supper, Christ is feasting on cuy (guinea pig), a local delicacy. Angels’ wings are the rainbow-colored wings of parrots, not your typical pure white. The corners of towers are oftentimes zigzagged, a tipping of the hat to Incan ideas of cyclical life and regeneration. Cusco is a brilliant example of syncretism, or the mixing of belief systems

The most incredible thing about Cusquenian architecture is the fact that the vast majority is done by human labor with marginal help from machinery. I had the opportunity to witness this process in person, having spent the past month volunteering on a construction crew, helping with the construction of a kindergarten. I participated in a concrete party, where we poured the building’s second floor by hand. To complicate things, the hand-made concrete had to be transported from the base of a steep hill to the school itself.

and cultures to produce a hybrid result.

The Catholic Church, more concerned with establishing loyalty to the Crown than rigidly enforcing strict aesthetic/ritualistic codes, condoned these behaviors as a means of attracting indigenous people to the Church. Hundreds of years later, these aesthetic traditions are cemented in the local expression of the religion itself, which is omnipresent. For whatever reason, it doesn’t matter if people are worshipping the Virgin Mary or Pachamama. In Cusco, they can be one in the same.

The architectural contrasts are not as easily reconcilable. Spanish colonial mansions ap-



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Michael Kowalchuk at Machu Picchu, Peru.

pear to grow out of the surviving Incan walls. The Inca, for whom light and connection to the earth was paramount, designed vast enclosures exposed to the ground and sky. The buildings themselves were constructed of intricately carved, massive stones. The Inca knew how to create seams so tight that a single piece of paper cannot be slipped in between two stones to this day; they also developed techniques to mitigate the effect of earthquakes on their buildings. The trapezoid took on ritualistic significance in the doorways of important buildings but also reflects engineering prowess. Gravity bears down on the thicker bases of Incan construction (same concept as the Eiffel Tower).

In contrast to the enclosed courtyards open to the sky, Incan interiors were oftentimes dark and adorned with niches for storage/offerings. Originally, they were painted bright white or red. Architecture dorks, think back to that devastating lecture on polychromy. The thatched roofs were supported by wooden beams, which have long since decayed. Spanish ecclesiastical architecture, on the other hand, was all about bringing the light of God into church interiors to dazzle parishioners. Another major element of Spanish colonial architecture is the patio (courtyard) that responds to the hotter climates of Latin

America and reflects status.

For visitors today, there is also the question of the oddly proportioned wooden doors and grand foyers that lead into these courtyards. The horse, unknown to indigenous people, is the answer to that. The decorative fountains in the center of the courtyards served more than a decorative purpose as horses trotted in for nourishment. The main cathedral in Cusco's Plaza de Armas is as impressive as any in Europe and took almost one hundred years to build. The buildings that face the square include exquisitely carved wooden balconies that date back to the colonial era.

The same sense of ingenuity that moved boulders and raised cathedrals is alive and well, in its own way. Construction is everywhere in Cusco, a city of over 500,000 people. The city is comprised of mostly 3-6 story buildings that are a collage of concrete, terra cotta, plaster and paint. Taller buildings are becoming more commonplace along the main avenues, beginning to obscure the panorama of hills and mountains that frame the city. Buildings are constructed in phases over the course of years and the phases are easily discernible. The tops of many buildings are capped with bursts of exposed rebar, which will one day become columns to sup-

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Welcome to Our Newest AIANH Members:

AIA Members

Mrs. Israa Omar Assoc. AIA
Bill Guevremont AIA,
APRS PLLC

Congratulations to these newly licensed NH Architects:

Elizabeth S. Venus
Robert T. Westhelle
Kurt D. Knowlton
Matthew C. Jones
Lisa A. Gallant



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Details...

Fulcrum has announced the addition of Sean Kimmins to its staff, in the role of estimator. With over 19 years of progressive experience that includes both residential and commercial construction, he brings a comprehensive and diverse skillset to his new position at Fulcrum.

Educated at Wentworth University in Boston, Sean gained experience in construction working as an assistant project manager at Massachusetts-based construction management firms such as Suffolk Special Projects and later on as a project manager for Congress Construction. Those experiences and more led to becoming an estimator for Elaine and CWC Builders. In these roles he specialized in corporate, hospitality, retail, residential and institutional renovation projects as well as new construction.



On the Fulcrum team, Sean will be involved in pre-construction and all aspects of estimating to ensure thorough scopes and accurate pricing in an efficient, timely manner while working closely with clients, subcontractors, vendors and members of the team to further all aspects of estimating for Fulcrum Associates.

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Creation in the Beaubourg

Text & Photos by Bruce Hamilton AIA



Between the Cathedral of Notre Dame and the mansions of the aristocracy in the Marais lay a vast empty space that was transformed into a plaza/Centre Pompidou, a creation in the heart of Paris, France. The plaza opens up a view of the entire building setting off the singular architecture of the Centre Pompidou with its transparent façades and hanging circulations, revealing everything about how it functions and its structure. Commonly referred to as the Piazza (and has been from the moment of its conception by the architects Renzo Piano and Richard Rogers), in homage to the Piazza del Campo in Siena, also sloping. Caricaturists, musicians, acrobats, mimes, clowns, and jugglers perform there, visitors queue, passersby relax or stop to admire the building. The absence of urban furniture encourages people to sit down on the ground and make it their space. Thanks to its diversity, relaxed atmosphere, and the festive ambiance, the Piazza is a prominent element that makes the Centre so inviting. From the plaza, our tour group grasped the movement coursing through the



Interior of "Caterpillar" Interior of "Caterpillar"

edifice and notably the rolling flow of visitors taking the escalator hung on its façade, a veritable vertical extension of the city's circulation. The descent, situated below street level, orients and focuses the strollers gaze on the Centre, in response to the ascent on the mechanical "caterpillar," which gradually offers the discovery of a unique panoramic view of Paris.

Though the radical and innovative architecture of the Centre Pompidou was perceived as revolutionary at the time of construction, it is nevertheless heir to diverse historical currents. Its metallic structure, based on a system of columns, beams, and prefabricated elements, echoes the architecture of cast iron and glass that triumphed in the 19th century by bringing luminosity, lightness, and transparency to buildings. The geodesic domes of Buckminster Fuller are an example of experimentation, along with Charles Eames' 1949 house which blends prefabricated elements assembled in a light framework with glass curtain walls.

The choice of pushing circulations to the exterior of a structure so these spaces would not interfere with the spaces in the interior had already been accomplished in 1914 by Walter Gropius, who placed two stairwells of his factory in glass cylinders at the ends of the



Main Lobby



Transparent Façades of the Centre Pompidou

building. Even the “caterpillar” staircase that zig zags across the façade of the Centre has a forebear in the back façade of the MIT dormitory designed by Alvar Aalto in 1948.

The Centre Pompidou has amazed and delighted visitors since it opened in 1977, not just for its outstanding collection of modern art – the largest in Europe – but also for its radical architectural statement. The dynamic and vibrant arts Centre delights with its irresistible cocktail of galleries and cutting edge exhibits, hands-on workshops, dance performances, cinemas and other entertainment venues.

Today the Centre presents the most important collection of modern and contemporary art in Europe, with a very strong multi-disciplinary dimension. A genuine home for artists, it is open to the entire range of artistic scenes around the globe and advocates a global perspective, which is essential for a museum aiming to maintain its mission of universality in the age of artistic globalization. The museum is also a storehouse of knowledge – the knowledge developed on



Centre Pompidou Cafe

the collections. Thus, the Centre Pompidou participates in writing the history of art in the disciplines covered by its collection.

As the largest and most important museum of modern art in Europe, Centre Pompidou is a must see attraction when you’re visiting Paris. Featuring the late 19th- 20th-century art, our tour group was able to explore its collections and galleries featuring over 50,000 works, including movements from Fauvism, Cubism, Surrealism, and Abstract Expressionism. ■



Portrait of Writer André Dhôtel by Jean Dubuffet



The Table by Alberto Giacometti

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Details...

Milestone Engineering & Construction, Inc. recently completed the renovation of a portion of the former New England Center at the University of New Hampshire into the Center for Advancement. Harriman Associates of Portland, Maine is the architect.

The project included interior office renovations of the 1st and 2nd floor areas. The 2nd floor scope involved renovating a portion of the original New England Center conference facility into open work/office space. This is the fourth major project Milestone has completed at the New England Center, having previously renovated the Adams Towers A and B and the Kellogg Building.

The Granite YMCA's Capital Campaign received a major boost recently, thanks to a considerable donation of \$150,000 from **PROCON**.

"Our heart-felt thanks to Mark and Sally Stebbins and PROCON for this amazing gift," said Hal Jordan, President and CEO of The Granite YMCA. "Their kindness and generosity will have a lasting impact on the lives of youths across our region."

The PROCON donation was a result of a pledge made to match funds raised by the team's division of the Y's Capital Campaign. All funds raised will support building the Y's Centers for Youth and Teen Leadership. The Allard Center site, a new facility, is expected to open this fall with the renovated and expanded downtown Manchester center slated for a winter, 2017 opening. When completed, both centers will serve more than 2,000 teens and tweens.

The Jeff Taylor Bean Pots to Bell Towers Fund



Colleagues and friends of the late Jeff Taylor are creating a memorial fund to provide continuing support for the kinds of projects that benefited from his amazing creativity, energy, and ability to bring diverse interests together.

The inventive Fund title *Bean Pots to Bell Towers* was the suggestion of one of his daughters and echos the breadth of Jeff's interests.

The Fund will be held at the New Hampshire Charitable Foundation and be administered by a group of his colleagues and family members. Grants from the Fund will be made to any of Jeff's diverse areas of interests including but not limited to: sustainable community planning, economic development, reuse of historic buildings, community betterment, cultural stewardship, mentorship, and natural resource conservation.

The fund originators are in process of inviting contributions to the fund through both personal meetings and mailings to many of the people who knew and worked with Jeff. In the next months many of you will be receiving a mailing with information about this Fund, and we hope you will contribute generously so his innovative work can continue here in New Hampshire.

Jeff was actively engaged with AIANH in organizing the first charrette in New Hampshire for the Belmont Mill and working with AIANH to help organize Plan NH. His efforts led to his being chosen to receive the first Clinton Scheerr Award in 1999. He



Jeff Taylor Hon. AIANH

received an AIANH Honor Award in 2001 and was named an Honorary Member of AIANH in 2003.

Jeff's leadership of the NH Office of State Planning for a number of years had a profound impact on the state and its communities. He allied himself very closely with the architectural community throughout the state and worked with seasoned architects, engineers, and landscape architects, as well as emerging professionals, enthusiastically looking for ways to improve communities through AIANH with Plan NH, where he led charrette teams. After leaving the Office of State Planning he continued to lead charrettes for Plan NH as well as through his planning office. The charrettes focused on working with the historic fabric of each community and in some cases for specific historic buildings to design a plan for a sustainable improvement for the community as a whole. His preservation efforts included the first design charrette that resulted in saving the Belmont Mill in January of 1996. Many of the charrettes also included the refurbishment and preservation of architecturally significant buildings such as the Eagle Block in Newport in 1999. Jeff did at least 17 charrettes through Plan NH, three through AIANH and at least 12 privately. In all Jeff had a wonderful ability to engage the public and the charrette teams and to steer the design and public awareness toward a

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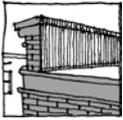
Striving to be the leading voice promoting free enterprise within the construction industry!

For more information or to learn more about membership contact the Chapter office:
603-226-4789



Upcoming AIANH Events

Chapter Meetings , 2030 & Beyond Educational Series, and more



We have a very busy May and June scheduled and hope to see you at these events!

June 9: Zero Net Energy Homes & Deep Energy Retrofits: A View from the Trenches 6.5 AIA LU/HSW

We are happy to announce the continuation of our 2030 & Beyond Series, with three programs this year, beginning on June 9, 8:15-5:00 pm at Kingsbury Hall, UNH.

During this day-long seminar led by **Marc Rosenbaum, PE**, we'll look at current thinking in zero net energy and deep energy retrofit projects. Enclosure approaches and their optimization will be covered, for both new and retrofit construction. Heating and cooling, ventilation, and domestic hot water systems appropriate to low load buildings will be discussed, as well as design considerations for solar electric systems, including the effect of adding battery storage. Guidelines and conclusions will be backed up by monitored data, and case studies will be presented.

Marc Rosenbaum, PE is a long-time student of making great buildings. He uses an integrated systems design approach to help people create buildings and communities connected to the natural world, supporting both personal and planetary health. Recently much of his work has been concentrated on Zero Net Energy Buildings, Deep Energy Retrofits, and Passive Houses. His work has been recognized nationally by ASHRAE, AIA, EEBA, and NESEA, but they didn't see all the mistakes along the way! His presentations are sought after and well attended, so don't miss this opportunity!

Admission includes the seminar, \$10 parking fee, a continental breakfast, and lunch. Cost is \$128 for professionals and guests and \$80 for emerging professionals.

Sessions 2 & 3 of our 2030 & Beyond Series will be on October 5 at Manchester Community College with Joe Lstiburek and

Details and registration for all programs at www.aianh.org/news/aianh-events.

Highlight your company: become a sponsor of an AIANH event! See the website or call the AIANH office.

November 2 with Peter Yost (location to be announced). More information available soon. Participants who have attended the June 9 Session will be offered discounts for Sessions 2 and 3.

Gold Sponsor: **EnviroVantage**; Silver Sponsor: **North Branch Construction, Inc.**

June 16: NH Architects & Engineers Emergency Response Informational Meeting and Tour of Homeland Security Emergency Management Operations Center in Concord

Are you interested in helping out after a declared emergency? Think back to the Mother's Day flood or the great ice storm. Members of the NH Architects and Engineers Emergency Response Task Force (NH AEER-TF) are trained to rapidly assess building damage in disasters. Our assistance to the emergency management system helps business owners get back on their feet sooner and citizens to return to their homes sooner.

We could use your help! Join us for this tour, dinner, remarks by HSEM Director Perry Plummer, review of the NH AEER-TF and NH State activation procedure and NH AEER-TF member requirements, plus comments from the field by Portsmouth Fire Chief Steve Achilles. Dinner included. **AIA LUs will be available.**

The event will take place from 5:30-8:45 pm. See related story on page 11.

June 30: The AIANH House Tour Revived!

AIA New Hampshire is delighted to be reviving our House Tour, a very popular event that ran for many years before taking a hiatus in 2011! We'll visit homes in the Peterborough, NH area designed by Susan Phillips-Hungerford AIA, Sheldon Pennoyer AIA, Jay Purcell AIA, and Dan Scully AIA. The tour will be followed by a dinner reception at Four Winds Farm, which is Rick and Duffy Monahan's former home, now transitioned to a working farm and event venue. The Holmes family will give us an overview of their efforts in bringing the property back to a working farm, using sustainable practices in raising beef, lamb, and dairy products. **AIA LUs will be available.** 4:00-8:45 pm. Platinum Sponsor: **Pella Windows and Doors.** ■



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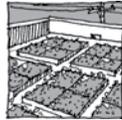
Details...

Dennis N. Francoeur, Jr. of **RPF Environmental** has been awarded the Council-Certified Microbial Investigator (CMI) designation by the American Council for Accredited Certification (ACAC). This prestigious certification recognizes Francoeur's knowledge and field experience in microbial sampling. The CMI designation is accredited by the Council of Engineering and Scientific Specialty Boards (CESB), a nationally recognized third-party accreditation body. His achievement places him among in an elite group that totals fewer than 3,000 professionals worldwide.

Francoeur, already a Certified Industrial Hygienist and Certified Safety Professional, has been active at the regional and national level for over 30 years in the industrial hygiene, safety and hazardous materials testing industry. His certification qualifies him to perform mold inspections, assessment and testing of residential buildings as well as to develop mold remediation specification and protocols in New Hampshire in accordance with recently enacted NH Senate Bill 125.

For more information on ACAC Certification visit www.acac.org. For more information on RPF Environmental, visit www.airpf.com or call 1-888-Safe Air.

Frank Lemay Honored with Construction Ethics Award



Frank Lemay, founder and president of Milestone Engineering and Construction, Concord, NH, has been named as the recipient of the 20th annual New Hampshire Construction Industry Ethics Award. The award honors the "individual, business or organization that, through its words and deeds, best demonstrates a commitment to upholding the highest ethical standards in construction."

A resident of Chichester for the past 40 years, Lemay boasts more than four decades of construction and engineering experience. He began his career at age 15 with his uncle's paving business, working there through high school and while attending Northeastern University, where he earned a bachelor's degree in Civil Engineering. After two years with Massachusetts' O'Donnell Construction, he spent a decade with R.C. Foss and Sons, rising to vice president and stockholder.

In 1988, Lemay, a registered structural engineer, and a partner founded Milestone



Frank Lemay

Engineering and Construction, growing it from an 8'x10' office into what is today one of New Hampshire's most respected construction firms. Ownership is now shared with his son, Geoffrey, and three other long-time managers. Known for its loyalty and treatment of its employees, Milestone staff members average 14 years with the company.

Clients, architects, subcontractors, and competitors all praise the manner in which Lemay conducts his business. "Milestone is Brewster Academy's primary contractor," says Lisa Braiterman, the school's CFO, "and the reason is that we know that Frank and all his supervisors and project managers deal with us honestly and directly, do not hide any issues or problems, and work hard to ensure that projects they perform are done safely, correctly, and within our budget and timetable."

"Frank brings a rare combination of experience, dependability, and good humor to every project," says Barry Brensinger AIA of Lavallee | Brensinger Architects. "His trustworthiness is beyond reproach. He has built a very successful business on partnerships with owners and architects that are founded upon fairness and 'always doing what's right.'"

Ken Duchesne, vice president of Granite State Plumbing and Heating, said, "I have had the honor of knowing Frank since 1991. He hasn't wavered once from his actions of

Continued on page 15

THE ARCHITECTS' CHOICE SINCE 1933

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NH Architects & Engineers Set to Assist During Declared Disasters

NH AEER-TF Meeting for Current and Potential Members, June 16



The New Hampshire Architects and Engineers Emergency Response Task Force (NH AEER-TF) is a group of architects, engineers, and other building industry professionals who are trained in a Safety Assessment Program (based on California OES-SAP) to serve as second responders in an emergency situation under the management of professional emergency responders.

In times of natural disasters or other catastrophic events, architectural and engineering expertise and skills are needed to provide structural, mechanical, electrical, or other architectural or engineering evaluations to determine the integrity of structures, buildings, piping, or other systems.

After a declared disaster, the group will assist local emergency management officials and the State of New Hampshire and help business owners get back on their feet sooner and citizens to return to their homes sooner, expediting the recovery process and saving lives and money.

The effort is led by AIA New Hampshire and representatives from the Structural Engineers of New Hampshire (SENH), Associated Consulting Engineers (ACE), and the NH Society of Professional Engineers (NHSPE). NH AEER-TF members are architects, engineers, and Certified Building Inspectors. Qualified contractors as well as architects and engineers in training can be part of the team to assist licensed professionals.

Task Force members are required to pass two emergency response training programs, one specific to building safety assessment and one pertaining to incident control. The NH AEER-TF has provided two training opportunities since 2014, is arranging more sessions, and encourages its members to avail themselves of training offered by FEMA and the State.

The volunteer program was initiated three years ago. The organizational team spent the first two years concentrating on training and

legislation to provide protection from civil litigation for volunteer services rendered in an emergency. Liability protection is essential for licensed professionals who are more vulnerable to suits in their area of expertise than regular citizens. Legislation to add architects and engineers to the NH Good Samaritan law passed in July 2015 and took effect immediately.

NH AEER TF NH ARCHITECTS & ENGINEERS EMERGENCY RESPONSE TASK FORCE

A Memorandum of Understanding with NH Homeland

Security and Emergency Management was signed, which outlines when and how the NH AEER-TF would work for NH Homeland Security and Emergency Management.

NH AEER-TF bylaws were adopted April 6, 2016. Officers are Paul Hemmerich AIA, president; Bob Champagne, PE, vice-president; Jonathan Hallé AIA, secretary; and Linda McNair Perry PE, treasurer. A subcommittee is working with NH Homeland Security Emergency Management and NH DOT to establish activation procedures, which are nearly complete. Thanks also goes to Paul Bourbeau AIA, who along with Jonathan Halle, ran this effort from its inception until April 6.

NH AEER-TF will give a presentation at the June 9 NH Emergency Preparedness Conference at the Radisson Hotel in Manchester, NH. This event brings together emergency responders from across the state to explore a wide spectrum of emergency management topics. The NH AEER-TF presentation will explain the team's availability to provide assistance in an emergency and how we can help local governments perform facility & building safety evaluations as quickly (and safely) as possible allowing communities' citizens and businesses to return to normalcy.

A meeting of the full NH AEER TF will be held on June 16 at NH Homeland Security/ Emergency Management in Concord, and the group invites all individuals interested in offering their volunteer service. The event will include a tour of the operations centers, re-

Continued on page 14




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The skills required for someone to direct unskilled labor to construct a coherent vision from memory are impressive to be sure. "There is no plan; the plans are up here, in my head," my foreman told me one day. With renewed interest in the vernacular as a result of Modernism's foibles, this process was enlightening for a veteran of the U.S.'s design-based, aesthetically-ambiguous-but-somehow-contemporary system of architectural education.

KOWALCHUK

Continued from p. 5

port subsequent floors. Roofs are either flat, sloped with ceramic tiles or corrugated metal sheets that are weighed down by rocks. Terracotta walls will one day be covered by plaster and, with luck, painted some bright color to contribute to the city's confetti palette. The most incredible thing about Cusquenian architecture is the fact that the vast majority is done by human labor with marginal help from machinery.

I had the opportunity to witness this process in person, having spent the past month volunteering on a construction crew, helping with the construction of a kindergarten. I participated in a concrete party, where we poured the building's second floor by hand. To complicate things, the handmade concrete had to be transported from the base of a steep hill to the school itself. Watching a 60+-year-old Peruvian man carry full buckets of concrete up a hill over a dozen times is certainly something to behold. I'm proud of my 3+ trips of half bucketfuls myself. I quit, exasperated, after the bucket gave out under me and deposited wet concrete about 10 feet from the final destination. Instead, I made myself useful by schlepping the de-

livered buckets to the second floor itself. In addition to the work, the event was sold to the community as a party, which meant food and chicha (corn beer) were a must. By the late afternoon, the slightly-intoxicated crowd lost all sense of purpose. A local government official had to rally the companeros to action as us sober volunteers looked on. One can't really give up on a concrete party; the task is either completed or not. After hundreds of bucket runs, the second floor finally took shape on top of the precarious framework of wood and Styrofoam. Laborers removed air pockets by swirling large sticks through the wet concrete.

On top of getting ever-so-slightly-more-buff and a killer tan from the overcast-but-intense Peruvian sky, the work was like the Ghost of Architecture School Past. Facts like: even dry concrete takes time to set to full strength or that concrete is aggregate, water and cement. It's hard to forget about the characteristics of the aggregate after spending hours carrying it up a hill. Personally constructing the rebar frame, following specific instructions regarding the spacing of hand-bent metal, revealed the building's major points of stress. "Rebar + concrete performs well both in tension and compression," says a Building Systems professor in the back of my head.

After the concrete had finally dried to full strength, we spent days removing the wood formwork from the building, revealing a fairly spacious interior. The temporary wooden structure was made of eucalyptus. A quirky bit of history, the Australian government sent eucalyptus trees to Peru at the end of the 19th century to prevent the mountains around Cusco from eroding into the city. As for the wooden formwork, that had to be carried back to a community center under construction, another example of Peruvian ingenuity. All of the formwork from the first floor was diligently de-nailed for eventual use on the future second floor.

Although the school's construction is only possible because of the expertise of our intrepid foreman, the unskilled yet dedicated help of volunteers and support from the community at large, the architect in me was always thinking "what if." The skills required for someone to direct unskilled labor to construct a coherent vision from memory are impressive to be sure. "There is no plan; the plans are up here, in my head," my fore-



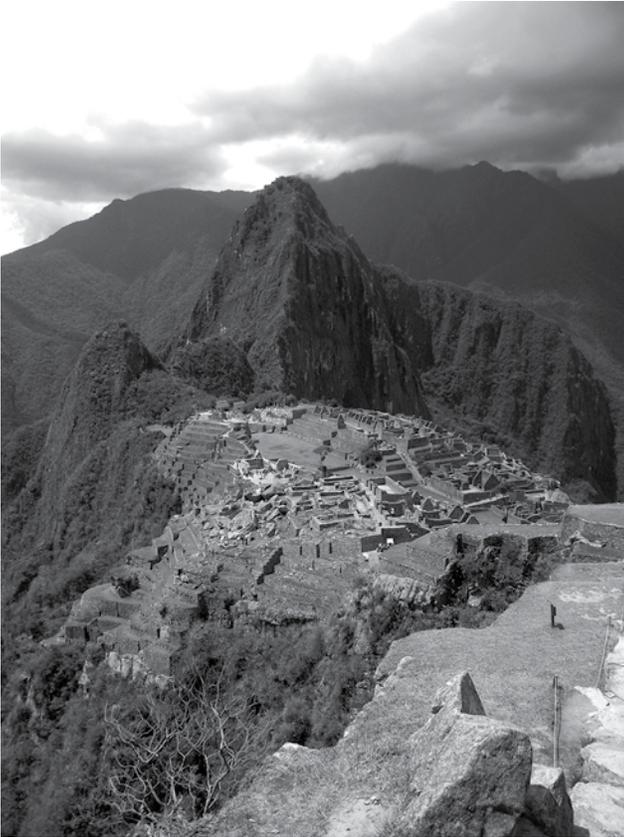
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Machu Picchu

man told me one day. With renewed interest in the vernacular as a result of Modernism's foibles, this process was enlightening for a veteran of the U.S.'s design-based, aesthetically-ambiguous-but-somehow-contemporary system of architectural education. Side note: The Barefoot Architect is an excellent resource for low-cost, climactically-specific design solutions. At the same time, the process further entrenched the idea that simple design considerations can make a world of difference. Peru does not lack earth, sun, air or rain (for a solid half of the year, at least). Passive systems can go a long way in a place like this. Nonetheless, our building was not oriented east-west to take advantage of the arc of the sun. An open or glazed north façade (south in the Northern hemisphere) would have yielded vastly different spatial qualities than the small apertures allowed for.

Although the building was small, it will certainly be dependent on artificial light for most of the day. Similarly, the potential exists for graywater collection systems that take advantage of the region's rainy season. This could dramatically improve the state of plumbing and sanitation for the entire community. Terraced community gardens

could provide a source of nutrition and structural stability for the hill upon which the school rests. Erosion is most certainly a problem, as evidenced by the trenches that we needed to dig and my multiple tumbles thanks to unstable terrain. Obviously, these solutions take time, money and diverse skillsets. I am not so presumptuous as to think that I have all of the answers or that my month-long volunteering stint provided me with limitless insight into a foreign community. I'm merely suggesting that design is and can continue to improve lives if it is approached with end users and communities in mind.

Some of the systems mentioned above have been improvised by locals for generations without the luxury of fancy degrees or the aid of foreign architects. Design isn't free, but sometimes something so simple as rotating a building 90 degrees before construction begins can make a world of

difference in terms of energy usage and the quality of space. These lessons stick with me wherever I go, whether it's a renovation or new construction. "What if..." is one of architecture's greatest assets.

Descending from the high and lofty world of theory, there is also the story of my living arrangements. Somewhere between hippie commune and bed and breakfast, my accommodations were just as profound as my volunteer work and travels. I lived with a dozen other volunteers from all over the world and two awesome host parents (an adorable couple who met when one of them was volunteering in Cusco herself). One shower; 1.5 bathrooms; you do the math. From "debates" (more like shouting matches or reeducation campaigns) about feminism to 90s rom com marathons, the house was always alive. I never went to summer camp as a kid so my top bunk living was a welcome experience. The sporadic hot water that was heated electrically and never let you forget it (occasional shocks from the shower head) were less welcome.

It's funny how rapidly you connect with people when quarters are close. People I

Continued on page 14

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PURCELL, PERSPECTIVE*Continued from page 2*

the AIA Board of Directors to support the idea of a new investigation in an attempt to clear up contradictory and omitted information, using the highest standards of science-based investigation and analysis.

I thought it would be worthwhile to share the text of the initial paragraphs of the resolution in this month's *Forum*. It is quite lengthy. (The entire text is in the AIA 2016 Delegate Information book, which can be accessed through the Resource page on the AIANH website: www.aianh.org/resources. It is Resolution 16-3.)

Title: Investigation of the Total Collapse of World Trade Center Building 7. Sponsors: Daniel Barnum, FAIA and fifty members of the Institute intent to adopt a Position Statement in support of a new investigation into the total collapse of World Trade Center Building 7 on September 11, 2001.

“WHEREAS, according to the AIA Public Policies and Position Statements, architects are professionally obligated to use their knowledge, skill, and experience to engage in civic life; and

WHEREAS, World Trade Center Building 7 (WTC 7), a 47-story, steel-framed high-rise building, suffered a total collapse at 5:20 PM on the afternoon of September 11, 2001; and

WHEREAS, the cause of the collapse of WTC 7 has become the subject of vigorous public debate, such that establishing the true cause of the collapse of WTC 7 is of great civic importance; and

WHEREAS, prior to and since September 11, 2001, no steel-framed high-rise building has ever suffered a total collapse, except buildings demolished through the procedure known as controlled demolition; and

WHEREAS, the collapse of WTC 7 exemplified many of the signature features of controlled demolition, including:

Sudden onset: The roofline of WTC 7 went from being stationary to being in free fall in approximately one half-second.

Rapidity: The roofline of WTC 7 fell to the ground in less than seven seconds.

Free fall: For 2.25 seconds, or a third of

its descent, WTC 7 fell at the rate of gravity over a distance of eight stories, meaning that the lower structure of the building provided no resistance whatsoever.

Symmetry: WTC 7 fell directly downward through what had been the path of greatest resistance, with the debris deposited mostly inside the building's footprint.

Explosions and window breakage: Video shows vertical sequences of explosions and window breakage running up the north face of WTC 7 as it began to collapse.

Dismemberment: The steel frame of WTC 7 was almost entirely dismembered.

Totality: The entire structure of WTC 7 collapsed to the ground, leaving no sections of the building standing; and...”

More paragraphs follow in the remaining text of the resolution (too long to print here)

And the final text of the resolution reads as follows: NOW, THEREFORE, BE IT RESOLVED that the AIA Board of Directors shall commence the process to adopt a Position Statement, to be published in the AIA Directory of Public Policies and Position Statements, stating both:

The AIA's belief that incidents involving the catastrophic failure of buildings and other structures must be investigated using the highest standards of science-based investigation and analysis; and

The AIA's support for a new investigation into the total collapse of WTC 7.”

I thought it was important to share this information with the AIANH membership because I am curious what some of you may think about whether the AIA national organization should support this resolution. Yes, it is much easier to let this matter go, than to support a new investigation. And I understand that has been the course of the AIA vote in previous years, and may likely be the result this year too. If you have thoughts you would like to share on the matter, please email me using the AIANH email address, office@aianh.org. ■

NH AEER-TF*Continued from page 11*

marks by HSEM Director Perry Plummer and NH AEER-TF President Paul Hemmerich AIA, and a review on the progress of the Activation procedures and Safety manual by NHDOT Assistant Manager and EMS Coordinator Mark Kirouac. Portsmouth Fire Chief Steve Achilles will provide some real life examples of being in the field.

For more information on the event, contact AIA New Hampshire at office@aianh.org, 603-357-2863, or www.aianh.org/news/aianh-events. ■

KOWALCHUCK*Continued from page 13*

might not have been friends with in the States suddenly become next of kin. There's also the existential drama related to why one leaves home in the first place. For me, it's an incurable case of wanderlust. For some of my peers, travel is a means to figure life out. Husbands were left, schools were dropped out of and jobs were quit. Living with strangers is kind of like having a free therapist in the sense that you have to figure out how to present yourself as you truly are from scratch to people who want to learn all about you and are doing the same thing themselves. And then all of a sudden they leave or you leave. I didn't even have a chance to say goodbye to some of my closest new friends because they were off trekking in Huacachina or something. It doesn't bother me though, because I know that we'll meet again somewhere, whether it's at home or in Vietnam.

I said I wouldn't philosophize at the beginning of this segment but here we are. I find myself missing this communal arrangement and maybe if the dreamers of the 1960s figured out how to equitably do the dishes these arrangements would be more common. As much as I like my chic downtown apartment and awesome roommate, I long for beers on the terrace, collective dinners, and always having people around. If I'm ever lucky enough to return, I know I'll have a home waiting for me! ■

Construction Summary

Project Type: Fire & Rescue Facility
Cost: \$2,800,000
Location: Milton, NH
Owner: Town of Milton
Architect: Cowan / Goudreau Architects PLLC
Engineers: Norway Plains Associates, Yeaton Associates, TF Moran
Const. Mgr.: Eckman Construction

Project Type: New Customer Service Center (B16013) (Design/Build)
Location: Dover, NH
Design/Build Contractor: Harvey Construction Corp. of NH

Project Type: Pennichuck Water Works Distribution Facility
Cost: \$5,929,940
Location: Merrimack, NH
Owner: Pennichuck Water Works
Architect: HL Turner Group
Engineers: HL Turner Group
Gen. Cont.: Harvey Construction

Project Type: Orford Academy Alterations & Additions
Location: Orford, NH
Owner: AHEAD Inc.
Architect: Alba Architects
Const. Mgr.: HP Cummings Construction

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

MAY 26 AT APPLECREST

Continued from page 1

fices. Architecturally the new building sits in harmony with adjacent 100-year-old barn structures, yet utilizes many modern construction technologies, including a complete building envelope of insulated concrete forms.

We'll tour the facility, hear from the architects, owners, contractors, and finally, enjoy drinks, a specially prepared pig roast, and, of course, apple pie.

Hope to see you there! **1.5 AIA LUs**

More information and registration as well as sponsorship information at www.aianh.org/news/aianh-events.

Platinum Sponsor: Martini Northern

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Project Type: Mascoma Community Health Center
Cost: \$2,520,000
Location: Canaan, NH
Owner: Mascoma Community Healthcare
Architect: Stratton Brook Associates LLC, West Simsbury CT
Engineers: Horizons Engineering, Acorn Consulting Engineers, TEC Engineering
Gen. Cont.: North Branch Construction

Project Type: Mt Caesar Elementary School Renovations (Phase 1)
Cost: \$420,022
Location: Swanzey, NH
Owner: Monadnock Regional School District-SAU38
Architect: HL Turner Group
Engineers: HL Turner Group, WV Engineers
Gen. Cont.: Macmillin Co./DEW

Project Type: Park Theatre
Location: Jaffrey, NH
Owner: The Park Theatre
Architect: BKA Architects, Brockton MA
Engineer: TF Moran
Const. Mgr.: Hutter Construction Corp.

Project Type: Fitzgerald Public Safety Complex Addition & Renovations
Cost: \$8,500,000
Location: Plaistow, NH
Owner: Town of Plaistow
Architect: Dore & Whittier Architects, Newburyport MA
Const. Mgr.: Eckman Construction

TAYLOR FUND

Continued from page 8
 better future.

For more information about the fund and to see many wonderful stories related to Jeff, see <http://jhtstories.tumblr.com/>. To make a contribution online, go to www.nhcf.org.

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- Enter the Fund Name: Jeff Taylor Bean Pots to Bell Towers Fund, and click on the SEARCH button.
- Scroll down to see the Search Results, click on the Fund link to complete your donation.

If you prefer to make your gift by check, please make the check payable to the New Hampshire Charitable Foundation. In the memo line indicate that it is for the "Jeff Taylor Fund" and mail your check to: *Jeff Taylor Bean Pots to Bell Towers Fund, 12 Pine Street, Newbury, NH 03255. ■*

FRANK LEMAY

Continued from page 10

being honest and forthright. His consistent display of respect and honesty to all is refreshing. He has always embraced doing what is right for all parties, not just Milestone."

Lemay has also earned the respect of his competitors. "Frank is among the most outstanding people I have ever come across in our business," says Rob Prunier, executive vice president of Harvey Construction. "Not only does he conduct himself with integrity and trustworthiness that is needed in our business, but he also offers a unique ability to connect with people...and command their respect and trust."

Frank is a Professional Affiliate member of AIANH. He has served on the boards of CATCH Neighborhood House, Second Start (past president), and the New Hampshire Preservation Alliance, been the Business and Industry Association representative to the NH Lakes Management Advisory Committee, advisor to Kimball Jenkins School of Art, and member of the Concord Hospital Business Partners in Health Committee. ■



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Calendar of Events

May 19-21 AIA Convention. AIA Convention 2016 is the architecture and design event of the year. It's big, it's exciting, and it's where your community comes together for an incredible experience. Pennsylvania Convention Center, Philadelphia, PA, <https://convention.aia.org>.

May 26 AIA New Hampshire Visits Applecrest Farm, 1.5 AIA LU. Cover story.

June 3-5 Common Boston 2016 (CB16), the region's first open-house architecture festival; free and open to the public. Presented by the BSA Foundation, <http://www.commonboston.org/cb16>

June 9 2030 & Beyond: Zero Net Energy Homes and Deep Energy Retrofits – A View from the Trenches. 6.5 AIA LU/ HSW. See page 9

June 16 NH AEER TF event for current and prospective members. *AIA LUs available.* See page 9 and 11.

June 30 AIANH House Tour, Peterborough area, reception at the late Rick & Duffy Monahan's Four Winds Farm. *AIA LUs available.* See page 9

Coming this fall:

Oct 5 2030 & Beyond Workshop with Joe Lstiburek. More details available soon at www.aianh.org/news/aianh-events

Sept 22 AIANH / Plan NH Film Preview: Three short films (30 min total running time). The first two show how Net Zero Design has been implemented in two projects, the Tin Mountain Conservation Center and a Canterbury residence. A third film will discuss how New England Architects in large scale commercial and residential practice have made changes in their firms culture to make integrated design a mainstay of their design process. The films will be followed by a panel discussion, addressing how meeting the 2030 challenge of all buildings being net zero by 2030 is not only achievable but is no longer a constraint on the design process. We will also discuss policy trends at the state and national level that are making renewable energy mainstream and fully suited to any building or planning project. *AIA LUs available.* Watch for more details and registration. If you are interested in sponsorship this event, please call the AIANH office.

Oct 19 AIANH ARCHtoberfest, with special guest, the AIAVT Chapter. Harpoon Brewery, Windsor, VT. Details soon at www.aianh.org/news/aianh-events

Nov 2 2030 & Beyond Workshop with Peter Yost. More details available soon at www.aianh.org/news/aianh-events

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Photo of the Month



J. Paul Getty Museum, Los Angeles, CA

by Nick Isaak, AIA, PROCON

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