



CARMEL MISSION FOUNDATION

Cornerstone

FALL 2012

Basilica Retrofit Underway

\$5 Million Raised in Record Time

After more than two years of fund raising efforts, the Foundation has accumulated sufficient funding to enable the \$5 million seismic retrofit of the Carmel Mission Basilica to proceed.

Contracts were let at the beginning of August with the general contractor, Blach Construction Company. The retrofit work began with the erection of a scaffolding system. After the scaffolding is up, a tent-like weather protection structure will be erected over the entire roof to protect the ceiling from the elements and to allow the removal of the clay roofing tiles beginning in September. To minimize breakage, plans are to store the roofing tiles on two platforms up at the roof level.

The 220-year-old walls will then be stabilized by drilling over 300 center-cored vertical and horizontal holes into which steel rods will be inserted and fixed in place. The resulting steel framework will greatly strengthen the existing walls without affecting the look of the Basilica. Existing trusses and knee braces of the 76-year-old roof



Scaffolding going up around the Basilica. Photo by Blach Construction

structure will be replaced and strengthened. A new structural roof diaphragm will also be put in place. Once all of this is complete, the roofing tiles will be reinstalled. Concurrently, new electrical wiring and piping for a fire sprinkler system will be installed in the attic and a new bathroom building constructed near the Munras courtyard.

This project is designed to bring the Basilica into compliance with modern building and safety codes and standards, while preserving the beauty of “The Headquarters of the California Missions”. During the construction period the Basilica will remain open for regular activities. However, Blach Construction will be using Crespi Hall for its construction office and as a staging area. Fencing has been erected to cordon off construction zones for safety. Seismic retrofit work is expected to be completed by early next year.

“FINISHING TOUCHES” NEXT

The Foundation’s next challenge will be to raise the \$2.2 million needed for the “finishing touches” phase of the Basilica restoration. This work includes interior and exterior lath and plasterwork on the walls and towers, dome repair, electrical and

continued on page 4

Drawing reflects varying depths of south wall center-cored holes (in feet). Courtesy of Franks Brenkowitz and Associates.



CARMEL MISSION FOUNDATION

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The Carmel Mission Foundation was formed to fund the conservation and preservation of the historical properties and artifacts of the Carmel Mission. The Foundation is a 501 (c) (3) non-profit corporation independent from any religious organization. Its tax ID number is 26-2981780. All contributions are tax deductible to the fullest extent allowed by law.



Vic Grabrian

FROM THE PRESIDENT . . .

THANK YOU! We are humbled by the tremendous outpouring of generosity received to fund the seismic restoration of the Basilica. Thanks to well over 3,000 parishioners and friends throughout the local community and beyond, coupled with significant grants from public and private foundations, the \$5 million in cash and pledges needed for the seismic retrofit of the Basilica was raised in record time.

Funding for the Basilica restoration was kicked off by the Tricentennial Capital Campaign two years ago. By the end of last year, we had raised \$3 million of the \$5 million needed to accomplish the seismic retrofit. The plan was to begin the retrofit work in May in order to avoid the rainy season while the roof was off. Realizing it would be almost impossible to raise the last \$2 million in just four months, I contacted Blach Construction and asked them for the latest date they could start this year. They did some “out-of-the-box” thinking and said August, as they had come up with an innovative way to protect the ceiling from weather and the elements. We now had seven months to raise the \$2 million instead of just four; but it was still a daunting task. However, as this issue of the *Cornerstone* is going to press, scaffolding is rapidly going up around the Basilica.



Workers assembling scaffolding. Photo by Doug Mueller

Accomplishing this fund raising feat didn't come without a lot of hard work. Many people on the Foundation Team helped with this significant challenge; however, I would like to single out two special members of our Team. Sam Wright, Chairman of the Board and my predecessor who served as President until his term expired in 2011, was primarily responsible for the vision that put into place the building blocks for this success. Secondly, Mary Kay Teresa, through her tireless and undaunting efforts, raised over \$1 million in cash and pledges during the past twelve months. Additionally, I would like to thank Dr. Knox Mellon, Executive Director of the California Missions Foundation, who was instrumental in our receiving a \$650,000 Save America's Treasures grant from the National Park Service and a \$70,000 grant from the Hearst Foundation.

Over the next several months we look forward to the completion of the Basilica's seismic retrofit and moving on to the “finishing touches” phase of the Basilica's restoration. We are also launching our Planned Giving program for those who would like to remember the Foundation and its restoration and preservation work in their estate planning. In our next issue of the *Cornerstone*, we will be recognizing the names of all those who donated during 2012.

I am grateful for your most generous support and look forward to continuing our vital work together.

With warmest regards,

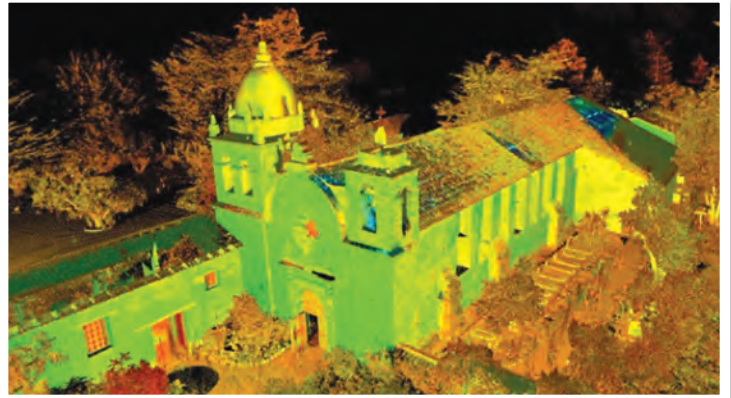
President and Chief Executive Officer

State-of-the-Art Technology Used for Retrofit

Billions of Laser Measurements Made of the Basilica

One of the world's latest technologies is being used for the seismic retrofit and restoration of the Carmel Mission. Crews from CyArk shot laser beams at the Basilica this spring as part of a project to create a three-dimensional digital model. Billions of laser measurements were made of the Basilica.

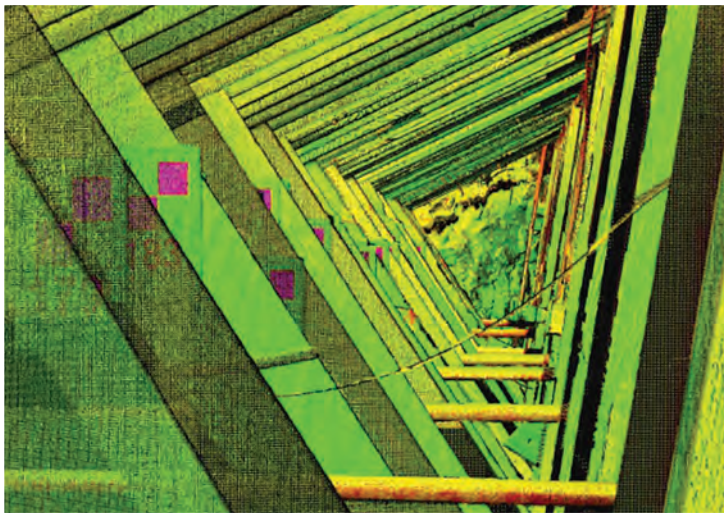
Known as 3-D laser scanning, this technology was developed by civil engineer Ben Kacyra. It was originally designed for commercial engineering purposes like creating accurate as-built drawings of complex structures. After his commercial company was acquired in 2001, Mr. Kacyra established CyArk as a non-profit foundation to use this technology to digitally preserve heritage sites around the world using 3-D laser scanning and new photographic processes. CyArk technology gives archaeologists and site managers the data needed to repair or rebuild historic structures, and archive the data in case they were ever damaged by an earthquake or some other calamity.



3-D laser image of Basilica. Colors depict different material reflection properties. Image courtesy of CyArk.

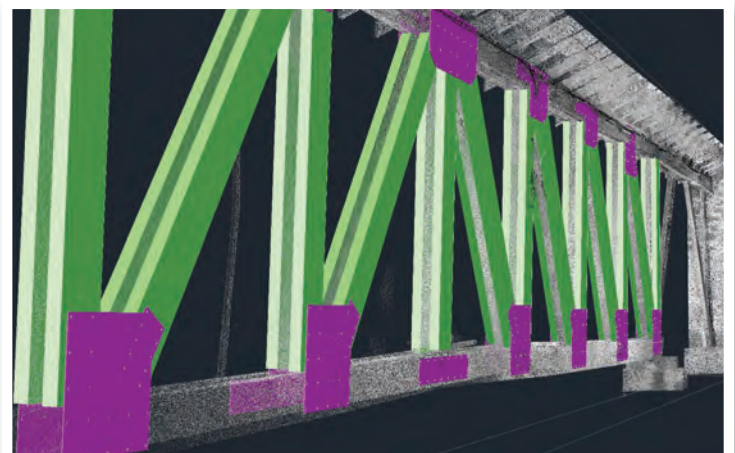
measurements and then checked against the originals. The outstanding measurement accuracies provided by this technology will allow many of the wood and steel components needed for roof strengthening to be pre-cut, significantly reducing the cost and time required to complete the project.

Plans are to eventually scan all of the structures in the Carmel Mission complex, both inside and out, so we will have 3-D models. You will be able to “walk through” the Mission complex and visit the Basilica and other structures digitally. These images and models of the Mission will be accessible through the Foundation’s website in the future so anyone from around the world can digitally “visit” the Carmel Mission. Using advanced technologies is another way the Foundation is working to permanently preserve the Carmel Mission for future generations.



3-D laser view of the knee braces and rafters in the roof. Image courtesy of CyArk.

The Carmel Mission Foundation, the Project Team and Blach Construction met about using 3-D laser scanning. It was determined that this technology not only had the potential to reduce the cost of strengthening the roof structure, but could assist the construction team in forecasting potential problem areas and conflicts between planned roof strengthening components. The Basilica’s attic is a complicated maze of beams and supports. Using the 3-D laser scanners, measurements and drawings of various components in the roof structure were generated. Test replacement pieces were cut using these



Composite view of existing trusses (gray) from laser imaging, along with planned metal girder truss plates (purple) and new wood reinforcing beams (green). Composite image courtesy of CyArk and Blach Construction.

Serra Memorial Wall Nearly Full

The Serra Memorial Wall was erected by the Carmel Mission Foundation as a permanent memorial to honor the Tricentennial of Fray Junipero Serra's birth in 1713 and to recognize those donors who made significant contributions for the restoration and preservation of the Carmel Mission.

However, as of now, all 300 of the \$5,000+ spaces on the Serra Memorial Wall have been taken. The names for the last \$5,000+ plaque (#4) are presently being coordinated with the donors for accuracy and will soon go to the foundry. There are still a few \$25,000+ Wall spots remaining on the center plaque. If you would like to have your name, or a remembrance, on the center plaque of the Serra Memorial Wall, you should contact the Foundation office as soon as possible.

Serra Memorial Circle Pending Approval

In order to accommodate future donors, plans are underway to convert the present ground surface area within the Memorial Wall to tiles. This tiled area will be referred to as the Serra Memorial Circle. As the Carmel Mission is a National Historical Landmark,



Serra Memorial Wall and Circle. Photo by Franks Brenkwitz and Associates.

changing the ground surface from crushed granite to tiles requires the approval of several governmental agencies. More information on the Serra Memorial Circle design and tile pricing will be forthcoming as soon as the necessary approvals have been obtained.

"FINISHING TOUCHES", *continued*

mechanical upgrades, new interior lighting, fire protection system and courtyard improvements.

Completing certain parts of this work while the scaffolding, support infrastructure and supervision are still in place for the seismic retrofit can save a tremendous amount of money. Therefore, the Foundation is attempting to raise the first several hundred thousand dollars for this phase within the next few months.



Dome and towers in need of repair

If you would like to help, please mail your donation or pledge to the Foundation in the enclosed envelope, or contact us at (831) 624-3261. Donations can also be made through our website.

Documentary on the Restoration

An important part of the Basilica's restoration will be the making of a photographic record of the restoration process. Noted filmmaker, Douglas Mueller (www.douglasmueller.net), whose work has been selected in the past for the Sundance Film Festival, has been retained for this work.



Filmmaker Douglas Mueller

Doug will document the restoration by filming all major steps in the construction and restoration process, conducting video-taped interviews and taking time-lapse photos. It is planned to later edit these materials into a TV documentary and a short film for a future kiosk in one of the Mission's museums.

Most importantly, a comprehensive record will be made of the entire Basilica seismic retrofit and restoration process to assist future generations in understanding the work performed today.

Mission Celebrates the 300th Anniversary of Blessed Junipero Serra's Birth



Carmel Mission will celebrate the legacy of its founder, Blessed Junipero Serra, with a year-long series of special events leading up to the 300th anniversary of his birth on November 24, 2013. The year will

include art exhibits, music concerts, liturgical events, special displays in the Mission museums, visits to other missions, and other activities.

To kick off the celebrations, the Mission is hosting a Gala Reception on November 24, 2012, Serra's 299th birthday. The reception will include remarks by several distinguished guests, a silent auction, a "key tree raffle", and live music by the Monterey Bay Symphony's string quartet. The reception will be a fundraiser to sponsor the other events planned throughout the coming year. More details will be available on the Carmel Mission's website, www.carmelmission.org.

Concerts AT THE MISSION



Carmel Mission Choir. Photo by Rick Shea

The Carmel Mission is a preferred venue on the Monterey Peninsula for concerts and choirs to perform because of the excellent acoustics. It's catenary-arched ceiling is the secret to this sought-after sound. Please contact the individual organization or the Carmel Mission for details on performance time and ticket information.

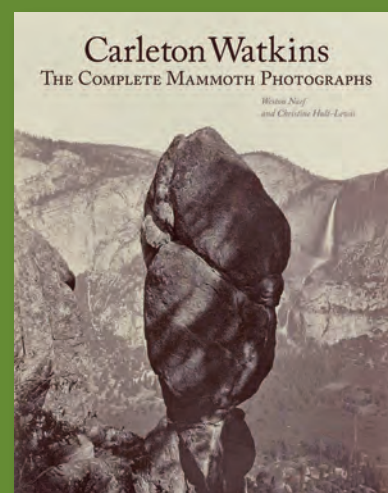
OCTOBER	12	"The Illuminated Night" (7:30pm) (Laura Anderson, Rich Yramategui)
NOVEMBER	10	Saturday Aria
DECEMBER	9	Brother Heinrich's Christmas
DECEMBER	9	I Cantori
DECEMBER	12	I Cantori
DECEMBER	15	Cantiamo
DECEMBER	16	Lesson and Carols
DECEMBER	21	Chanticleer

LECTURE SERIES

The Carmel Mission Foundation has two remaining lectures in its 2012 Lecture Series. This series is sponsored by the Foundation as part of its commitment to support historical and artistic exhibits connected to the understanding of the historical importance of the early California Mission System.

**Sunday, September 23, 2012
3 PM, Sunset Center, Carmel**

Weston Naef, Curator Emeritus, of the J. Paul Getty Museum will join us in Carmel to share the stunning photography of Carleton Watkins, one of California's first and most well-known photographers. The extraordinary body of work



produced by Carleton Watkins (1829–1916) between 1858 and 1891 constitutes one of the longest and most productive careers in nineteenth-century American photography. Mr. Naef's lecture will be on "Carleton Watkins: Father of California Mission Preservation, 1850-1880."

**Sunday, November 4, 2012
3 PM, Sunset Center, Carmel**

Our 2012 lecture series will conclude with Architect and Author, Jock Sewall, as he shares stunning photography, drawings and research from his newly published book on the Architecture of the 21 California Missions.

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Cornerstone

Newsletter of the Carmel Mission Foundation

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*Were You
Married at
the Mission?*

Photo by K.C. Jones



In upcoming issues of the *Cornerstone*, the Foundation would like to start featuring stories from our donors who were married at the Mission. If you were married at the Mission, please send us your name and contact information, and maybe a photo if you have one to share. We would love to hear your special wedding experiences and share them with our readers.

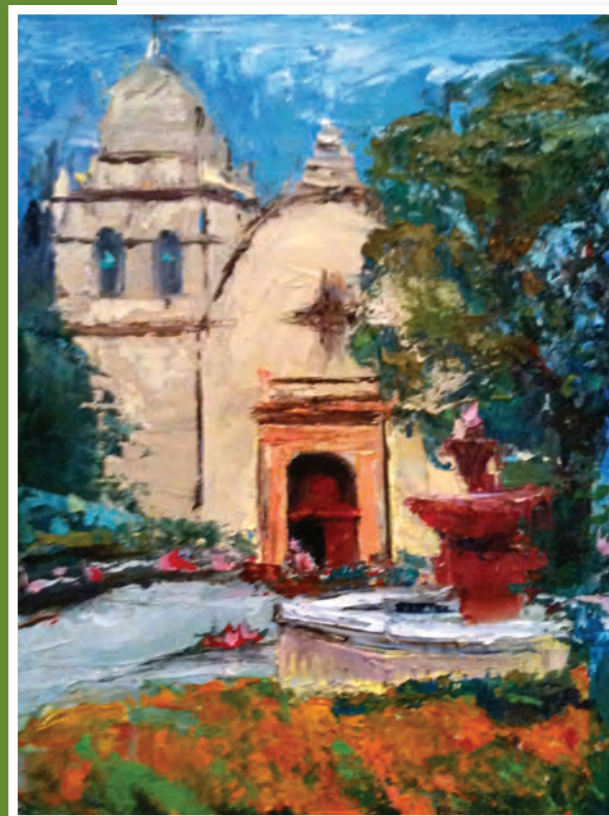
Donor Salute

Friday, September 14, from 5:00pm – 7:00pm

The Foundation is hosting a special “Donor Salute” in the Mission courtyard on September 14. The purpose is to thank all of the Foundation donors who made the seismic restoration project possible. We will also be celebrating the “roof coming off” as the construction phase of this project goes into full swing.

Come and celebrate with your fellow donors and receive our gratitude and appreciation for the accomplishment of this major milestone. There will be wine and hors d'oeuvres, live guitar music, oil painters painting Mission scenes, and docents explaining artwork.

RSVP We hope you will be able to join us so that we may thank you in person for your wonderful support. For planning purpose, we would be grateful for your RSVP as soon as possible to (831) 624-3261 or Barbara@carmelmissionfoundation.org.



Carmel Mission by Lilli-anne Price Oil