



CONCRETE PRESERVATION INSTITUTE

CPI News

The Concrete Preservation Institute Completes Sixth Year working with the U.S. National Park Service at Alcatraz Island

December 2014

The Concrete Preservation Institute (CPI) is proud to announce the successful completion of three historic concrete repair projects on Alcatraz Island during their 2014 summer and fall sessions. These included the facade of the historic Powerhouse, the Recreation Yard stairs, and concrete railings at Building 64. As with all CPI participant led projects, crewmembers participated in all aspects including project planning and design, selective demolition of deteriorated material, construction of custom wooden formwork, repair and installation of reinforcing, strategic pumping and placement of repair material around intact historic concrete, finishing repaired surfaces to achieve aesthetic compatibility with century old historic materials, preservation of historic windows and doors, meeting or exceeding industry codes and standards for repair, committing to a culture of jobsite and personal safety, and sensitively employing treatment approaches that protected the character-defining features of the historic structures (see page 2 for project images). The participants arrived with varying levels of prior experience, some having never worked in construction or construction-related industries, but quickly learned and found their passion for this type of work led by expert instruction from CPI staff, the National Park Service, and leading industry experts who regularly volunteer their time to be a part of this unique program. During CPI's three yearly sessions, participants work 12 weeks full-time and live in NPS quarters in the Marin Headlands. They gain 480 hours of service with the National Park Service (NPS), which they can apply toward hiring status should they seek a future career with NPS. Following completion of CPI training, these and all other alumni over the last six years have either begun or continued related college programs or were quickly hired by leading construction or concrete companies. The skills and knowledge gained by CPI participants are easily translatable to any area of the preservation or construction-related industries including both new and existing structures and infrastructure.

Beginning in January 2015 and continuing into April, CPI will field a special post-9/11 military veteran crew for their spring session on Alcatraz. Although CPI teams typically consist of a mix of university students, veterans, and other young people, this special session will be devoted exclusively to veterans and highlight the unique opportunities of the distinctive CPI program that make it a worthy strategic partner to veteran job training initiatives.

CPI is a non-profit educational foundation that works in partnership U.S. National Park Service and the Golden Gate National Park Conservancy at Alcatraz Island and throughout the Golden Gate National Recreation Area. We rely on the generous support of sponsors to accomplish our mission. In addition to BASF - our founding sponsor, and Hilti, Structural Group, and others, we are proud to welcome the Pankow Foundation and the RMC Research & Education Foundation as our newest sponsors. We welcome anyone to get involved as participant, project, or site sponsors, employers of our alumni, or as expert instructors or mentors. With a commitment to providing opportunities for veterans and other young adults, we look forward to expanding our programs and partnerships within the concrete and construction industries and the National Park System in the future.

For more information, to apply, or to pass along the information to a worthy young adult seeking to find his or her passion and direction for a future career, please see www.cpi-foundation.org, email cpi@cpi-foundation.org, or call 530-514-4341.



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2014 CPI Project Images: Alcatraz Island



Figure 1: Historic Powerhouse



Figure 5: Powerhouse interior forming and shoring for beam repair



Figure 9: Safety first - Personal protective equipment



Figure 2: Powerhouse interior column deterioration



Figure 6: Last day of pumping concrete on the Powerhouse



Figure 10: Summer 2014 team during daily safety briefing prior to starting work



Figure 3: Powerhouse interior column forming



Figure 7: Recreation Yard stair repair project



Figure 4: Powerhouse completed interior column after pumping (areas in green are historic concrete left intact)



Figure 8: Custom precast panel for concrete railing repair project