

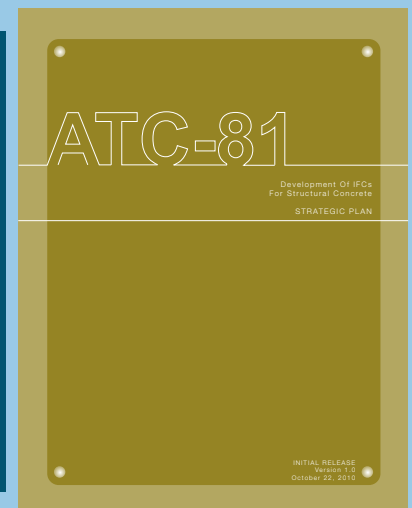
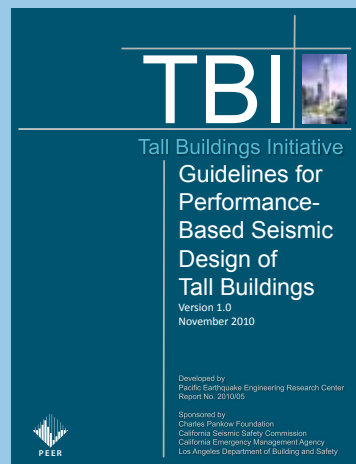
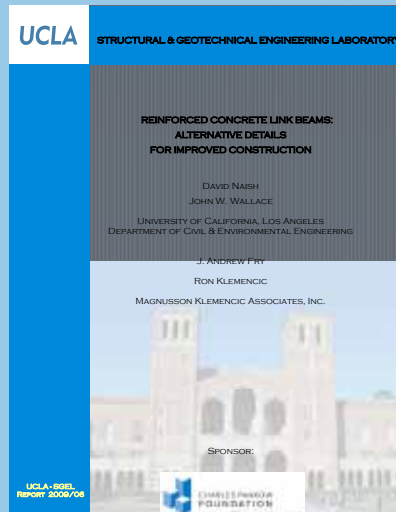


CHARLES PANKOW
FOUNDATION

Building Innovation through Research

2010 ANNUAL REPORT

MISSION The Charles Pankow Foundation exists to advance innovations in building design and construction, so as to provide the public with buildings of improved quality, efficiency and value.



2010 HIGHLIGHTS

- Awarded six new research grants
- Released new research products from five projects
- Rolled out new CPF website
- Produced CPF video
- Completed draft manuscript of Design Management Guide

PRESIDENT'S MESSAGE

As the nation's economic health began to improve in 2010, so did the Charles Pankow Foundation's financial grantmaking capability. This year we awarded six new research grants, detailed elsewhere in this Report, totaling \$677,000 in grant value. Our total research funding outlays for all new and earlier approved grants, totaled \$734,000 in 2010. While lower than our five year average, expenditures should increase smartly beginning next year.

Significant progress was made in developing the "Design Management Guide for the Design-Build Environment," the Foundation's first and only self-performed research project. We convened a third and final workshop, involving 18 Contributors whose input broadened and deepened the manual's content. Principal Author Ed Wundram completed an 82-page first draft manuscript, and the project was on schedule for publication in 2011.

The fruits of earlier grant awards, five final research products described elsewhere in this Report, were produced and disseminated by CPF grantees. Attaining more effective and widespread dissemination of research products, to benefit building design and construction practitioners, was emphasized during 2010 by both the Advisory Council and the Board of Directors. This focus will extend into 2011 with additional resources to be applied to CPF's work in disseminating research products for industry user adoption.

The short video, "Beyond Building: The Charles J. Pankow Legacy" was produced and posted on the new Foundation website. This film, for the first time, provides viewers a capsule story of who Charlie Pankow was and how his personal values shaped the purposes and the work of the Foundation. Complimentary responses to the film have been very gratifying.

From our national Advisory Council's two productive meetings this year, and from the ongoing contributions by its members, CPF's work is kept relevant and connected to current building industry issues. Advisors Patrick MacLeamy, Hans VanWinkle and Tom Verti retired from active Council work and we welcomed three new members, Erleen Hatfield, Steve Jones and David Thorman.

Ever since our origins in 2005, the research work done under CPF grants has been more focused, need-sensitive and effective, thanks to our many supporters and grantees. Our family of support grows every year and gives us confidence we are on the right track toward our Mission of advancing design and construction innovation for American buildings.



Richard M. Kunnath, President
Charles Pankow Foundation

EARLY ADOPTERS OF CPF RESEARCH

A core goal of the Foundation is proactive dissemination by our grantees of new research underway and delivered. The value of our grantees' products is affirmed when building industry practitioners, early on, actually adopt and employ the means, methods, innovations, and other outputs from these grants. Recent "early adopters" of note include:

Project	Grantee	Industry Champion	Product	Early Adoption
Reinforced concrete link beams: alternative delivery for improved constructability	John Wallace, UCLA	Ron Klemencic, MKA	Building code improvement	Adopted in national building code ACI 318-08, 21 months from CPF grant award
How to develop a Building Information Modeling execution plan for early building project stages	John Messner, Penn State	Deke Smith, bSa	"BIM Execution Planning Guide"	U.S. Army Corps of Engineers adopted product in its interim draft stage as Corps' national standard
Performance-based seismic design of tall buildings	Jack Moehle, et. al., PEER	Ron Hamburger, SGH, et. al.	"TBI Guidelines for PBSO of Tall Buildings"	MKA attained City of San Francisco approval for 40-story 10th & Market building, employing new TBI Guidelines

2010 RESEARCH GRANTS

In 2010, CPF awarded four new research grants and two significant amendments to earlier awards, totaling \$676,900 in value. The research topics each addressed a research need in actual building design and construction practice, gained positive recommendations from the CPF Advisory Council, and were unanimously approved for award by the Board of Directors. See the CPF website, www.pankowfoundation.org for full descriptions of all new and previous research grant awards.

Grantee	Research Topic	Grant
Georgia Tech	Precast Concrete National BIM Standard, Phase 2	\$58,742
Notre Dame	Hybrid Precast Wall Systems for Seismic Regions (Amendment)	\$14,400
UC Berkeley	Beam Hoop Reinforcement for Large SMRF Beams	\$93,445
UCLA	Composite Concrete Coupling Beams (Amendment)	\$53,342
Lehigh University	Unbonded Post-Tensioned Cast-in-Place Concrete Walls for Seismic Resistance	\$387,000
PCI Foundation	PCI Research & Development Program Support	\$70,000

RESEARCH PRODUCTS

During 2010, Charles Pankow Foundation research grantees completed five research projects funded by CPF grants. Full reports and other research products can be seen and downloaded at www.pankowfoundation.org

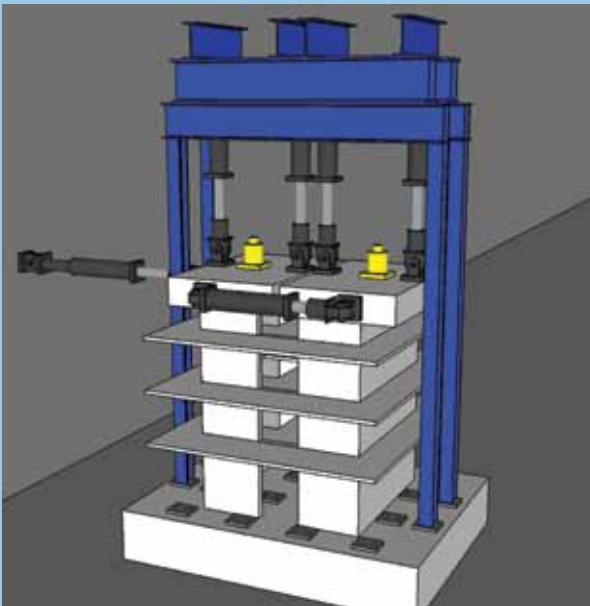
Project	Principal Investigator	Grantee
BIM Execution Planning Guide	John Messner	Penn State
Strategic Plan for Industry Foundation Classes for Structural Concrete Components	Edwin Dean	American Concrete Institute/ Applied Technology Council
National BIM Standard for Precast Concrete, Phase 1	Charles Eastman	Georgia Tech
Influence of Project Delivery Method on Achieving Sustainable, High Performance Buildings	Keith Molenaar	University of Colorado
Guidelines for Performance-based Seismic Design for Tall Buildings	Jack Moehle	UC Berkeley

NON-RESEARCH GRANTMAKING

The Foundation allocates a percentage of its annual grant awards for purposes related to Mr. Pankow's charitable and humanitarian interests during his lifetime. These interest include: giving to selected community causes; grants for education; and, support to selected construction and engineering industry associations.



Steel sections, Composite Concrete Coupling Beams, UCLA



Test set up, Hybrid Precast Wall Systems for Seismic Regions, Notre Dame



Left to right: Ron Klemenic, Timothy P. Murphy, Richard M. Kunnath, Robert K. Tener

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