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:

<table>
<thead>
<tr>
<th>Project</th>
<th>Grantee</th>
<th>Industry Champion</th>
<th>Product</th>
<th>Early Adoption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforced concrete link beams: alternative delivery for improved constructability</td>
<td>John Wallace, UCLA</td>
<td>Ron Klemencic, MKA</td>
<td>Building code improvement</td>
<td>Adopted in national building code ACI 318-08, 21 months from CPF grant award</td>
</tr>
<tr>
<td>How to develop a Building Information Modeling execution plan for early building project stages</td>
<td>John Messner, Penn State</td>
<td>Deke Smith, bSa</td>
<td>“BIM Execution Planning Guide”</td>
<td>U.S. Army Corps of Engineers adopted product in its interim draft stage as Corps’ national standard</td>
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</table>
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.

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

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

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

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.
Board of Directors

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Robert K. Tener, Ph.D., P.E.

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Erleen Hatfield, P.E., AIA, Partner
Buro Happold

Steve Jones
MacGraw-Hill Construction

Mark Sarkisian, Vice President for Design
Skidmore, Owings & Merrill LLP

David Thorman
Former State Architect, California

Steel sections, Composite Concrete Coupling Beams, UCLA

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

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

223 W. Foothill Blvd., 2nd Floor, Claremont, CA 91711
Phone: 909.624.1800 / Fax: 909.398.1000
info@pankowfoundation.org
www.pankowfoundation.org