

IDEAS COMPETITION 2010



PRESENTED BY

THE AMERICAN INSTITUTE OF ARCHITECTS

THE YOUNG ARCHITECTS FORUM

THE COMMITTEE ON DESIGN

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The AIA Young Architects Forum (YAF) and the AIA Committee on Design (COD) invites architects, students, and allied design professionals to submit sketches to the international 2010 YAF/COD Ideas Competition, entitled "Temporary/Permanent Relief Housing."

THIS YEAR'S BIG IDEA: **TEMPORARY/PERMANENT RELIEF HOUSING**

In this unique sketch competition, submitters are asked to explore the issue of temporary relief housing that could have a permanent function, through a concept design problem.

Winners will be announced and will have their work exhibited at the **2010 AIA National Convention in Miami June 10-12**. Selected entries will be displayed on the AIA Web site.

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Several natural disasters have occurred around the world in recent years, leaving people in desperate need of immediate shelter.

INTRODUCTION

- On December 26, 2004, the **Sumatra-Andaman earthquake** occurred off the west coast of Sumatra, Indonesia, which triggered a series of devastating tsunamis along the coasts of the Indian Ocean, killing nearly 230,000 people in fourteen countries, and inundating coastal communities with waves up to 100 feet high.
- On August 29, 2005, **Hurricane Katrina** made landfall in southeast Louisiana. It caused severe destruction along the Gulf coast from central Florida to Texas. At least 1,836 people lost their lives in the actual hurricane and in the subsequent floods, making it the deadliest U.S. hurricane since the 1928 Okeechobee hurricane.
- On January 12, 2010, a powerful **7.0-magnitude earthquake** hit the impoverished nation of **Haiti** followed by over 50 aftershocks. The resulting devastation left at least 112,405 people killed, 196,595 injured, 800,000 to 1 million displaced, and severe to extreme damage to the infrastructure in the Port-au-Prince area.
- On February 27, 2010, a **8.8-magnitude earthquake** occurred off the coast of the Maule Region of **Chile**. At least 500,000 homes are estimated to be damaged and at least 279 people were reported killed. Seismologists estimate that the earthquake was so powerful that it may have shortened the length of the day by 1.26 microseconds and moved the earth's axis of rotation by 3 inches or 2.7 milliarseconds.

Images from left to right:
earthquake damage in Chile;
flooding from Hurricane Katrina
in the United States; earthquake
destruction in Haiti; tsunami
devastation in southeast Asia.

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What does it take to rebuild a community after a natural disaster? Food, water, healthcare, security, infrastructure, and most obviously — shelter. In light of these recent catastrophes, temporary/permanent housing for disasters will be the focus for this competition. The designer is challenged to design a site built, mobile, modular, and/or transportable housing solution that when constructed, installed, fabricated on a site will comprise, as completely as possible, a community, both temporary and permanent. As such, the design solution should embrace and provide the opportunity for access to those functions and services this community will require: food, medical, social, financial, etc. The design should consider how this is a “livable community,” where the amenities essential to the daily life of the residents are integrated in the design. Successful solutions will demonstrate broad applicability and responsiveness to the widest possible range of various site and climatic conditions.

REFERENCES

Living Building Challenge

<http://ilbi.org/the-standard/lbc-v1.3.pdf>

AIA Communities by Design 10 Principles for Livable Communities

<http://www.aia.org/about/initiatives/AIAS075369>

This American Life Episode 297: This Is Not My Beautiful House

http://www.thisamericanlife.org/Radio_Episode.aspx?sched=1098

Images taken from the following websites:

http://commons.wikimedia.org/wiki/File:2010_Chile_earthquake_-_Puente_Llaco%C3%A9n,_Concepci%C3%B3n.jpg; <http://commons.wikimedia.org/wiki/File:Katrina-new-orleans-flooding3-2005.jpg>; http://commons.wikimedia.org/wiki/File:Haiti_Earthquake_building_damage.jpg; http://commons.wikimedia.org/wiki/File:Street_in_downtown_Banda_Aceh_after_2004_tsunami_DD-SD-06-07372.JPG

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Design temporary relief housing for refugees from natural or other disasters using sustainable strategies and following the **Living Building Challenge**. The proposed solutions should provide housing for approximately 500 displaced families as well as the necessary support services.

DESIGN PROBLEM

While successful site adaptability is a key goal and criterion for this Competition, the specific site to demonstrate the solution consists of approximately 200 acres. It includes the Astrodome and the surrounding parking lots. Entrants may include modifications to the structure of the Astrodome in their proposal, may allow the Astrodome to remain untouched and focus solely on the surface parking areas, or may have some combination of the two. Individual entries may focus their solutions on the provision of either temporary or permanent housing. Entrants are encouraged to address issues of uncertainty associated with either types of housing and with temporary solutions that become permanent.

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In the aftermath of Hurricane Katrina, more than 20,000 people displaced by the disaster lived in the Astrodome. Many shelters were also built along the Gulf Coast for the victims of the catastrophic flood.

THE SITE

The Reliant Complex in Houston comprises a large tract of land directly south of the City along its ring highway, loop 610. Among a vast sea of parking that is used for many activities from a car racing venue to the Rodeo carnival, is the new stadium and exhibit hall, and the Astrodome.

Completed in 1964, the Reliant Astrodome, originally known as the Houston Astrodome, is the world's first domed sports stadium. Originally home to the Houston Astros, Oilers and Livestock Rodeo, it has been stated that, "the Astrodome put Houston on the map". Even while abandoned, the Dome continues to be considered the pride of Houston. A 2008 survey of Houston Chronicle readers sponsored by AIA Houston ranked the Astrodome as Houston's favorite building.¹

¹ From Bucek, AIA Houston Chapter Resolution

Other sources of information on Astrodome:

Reliant Astrodome: <http://www.reliantpark.com/reliantastrodome/>; Katrina + Astrodome: <http://www.chron.com/disp/story.mpl/topstory2/3332869.html>; Ike + Houston: <http://www.centerpointenergy.com/staticfiles/CNP/Common/SiteAssets/doc/2009%20hurricane%20preparation%20FAQs.pdf>; Houston map database: <http://www.gims.houstontx.gov>

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The following section outlines the submission requirements, registration fees, eligibility details, and judging criteria. For more information, please contact AIA Honors & Awards at kcawards@aia.org.

SUBMISSION DETAILS

SUBMISSION REQUIREMENTS

Entries may be submitted anytime between April 1, 2010 and May 10, 2010.

All submissions should contain original content. All entries must be submitted without identifying marks, including logos, text, insignia, or images on the display surface that could be used to identify the submission's authors.

The AIA will use all information submitted to display in exhibitions and publications to publicize the Competition, including but not limited to the following:

- a gallery display at the AIA 2010 National Convention and Design Exposition in Miami;
- various web sites, including the AIA YAF & COD pages;
- the proposed COD Fall Design Conference in Houston, Texas;
- other industry magazines and print publications.

Recipients will be announced at the NAC/YAF Reception on Thursday, June 10, at the AIA 2010 National Convention and Design Exposition in Miami and have their entry boards printed full scale for the Competition display.

COMPETITION TIMELINE

| | |
|---------------------------------------|--|
| Thursday, April 1, 2010 | Competition begins, online submission site opens |
| Monday, May 10, 2010 at 5pm | Online submission site closes |
| Thursday, June 10, 2010 at 8pm | Winners announced at the NAC/YAF/COD Reception at the AIA National Convention in Miami, FL |

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REQUIRED INFORMATION AND FILES

1. Project Description/Narrative

A completed Project Description/Narrative describing the design in no more than 200 words clarifying the concept to be submitted. This should be a full description of your proposed design, including the structure's planning and design, approach to sustainability, delivery and transportation to and on the site, and materials used. *This information will be entered into the online registration form.*

2. Presentation Boards

Each of the two presentation boards should clearly display the entrant's approach. Suggested images include, but are not required to be, the following: plans, sections, elevations, perspectives, renderings, etc.

Both required presentation boards must be 3600 pixels high x 5400 pixels wide (24" high x 36" wide @ 150 DPI) in PDF format and saved as a single, two-page PDF file less than 10 MB in size. *This file will be uploaded into the online registration form.*

3. Concealed Identification Form

A completed Concealed Information Form identifying and describing the design team. Provide contact information on each member. *This information will be entered into the online registration form.*

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REGISTRATION FEES

Nonrefundable registration fees per entry:

| Student | AIA Member | Nonmember |
|---------|------------|-----------|
| \$40 | \$100 | \$150 |

Payment information will be collected on the online registration form.

REGISTRATION

For more information, please visit the [2010 YAF/COD Ideas Competition Homepage](#). The link to the online submission site will be found on this page as of April 1, 2010, when the site goes live for entries.

ELIGIBILITY

This international competition is open to all persons — registered architects, intern architects, students, and designer — with the following exclusions:

1. Any person whose relationship to a juror might affect the juror's impartiality in carrying out his/her responsibilities. These include, but are not limited to, members and employees of jurors' firms, close business associates of jurors, jurors' students, close relatives of jurors, and any employee of the AIA.
2. Entries shall not have been previously published in any competition publication; printed, online, or otherwise.
3. Entries shall not have been selected as a finalist, winner, honorable mention, etc. in any other competition.
4. If the design is submitted from a team of people, all team members must be identified on the concealed identification form.
5. For jurying purposes, each design is considered as a separate entry and a separate entry fee must be paid. Multiple designs will not be considered as a single entry.

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JUDGING CRITERIA

The jury will review the submission and select the finalists based on these criteria:

1. Aesthetic merit;
2. Fulfillment of program requirements;
3. Use of sustainable building materials, practices, strategies and technologies;
4. Constructability and suitability of design for intended use;
5. Submission involves community involvement in its construction.

Decisions of the Jury are final.

JURY

Barton Phelps FAIA

Barton Phelps & Associates
Los Angeles, CA

Lawrence Scarpa FAIA

Pugh + Scarpa Architects Inc.
Santa Monica, CA

Mehrdad Yazdani Assoc. AIA

Yazdani Studio of Cannon Design
Los Angeles, CA