

Houston Land/Water Sustainability Forum



LID DESIGN COMPETITION Q & A

SEPTEMBER 9, 2009

Today's Agenda



Introductions

Competition Background

Competition Overview

Project Design Challenge Overviews

Suburban Residential

Urban Redevelopment

Green Roadway

Questions

Introductions



Sponsors

AIA-Houston/Architecture Center Houston Foundation

Mischer Investments, LP

ASCE-Houston

Property Providers

Mischer Investments, LP

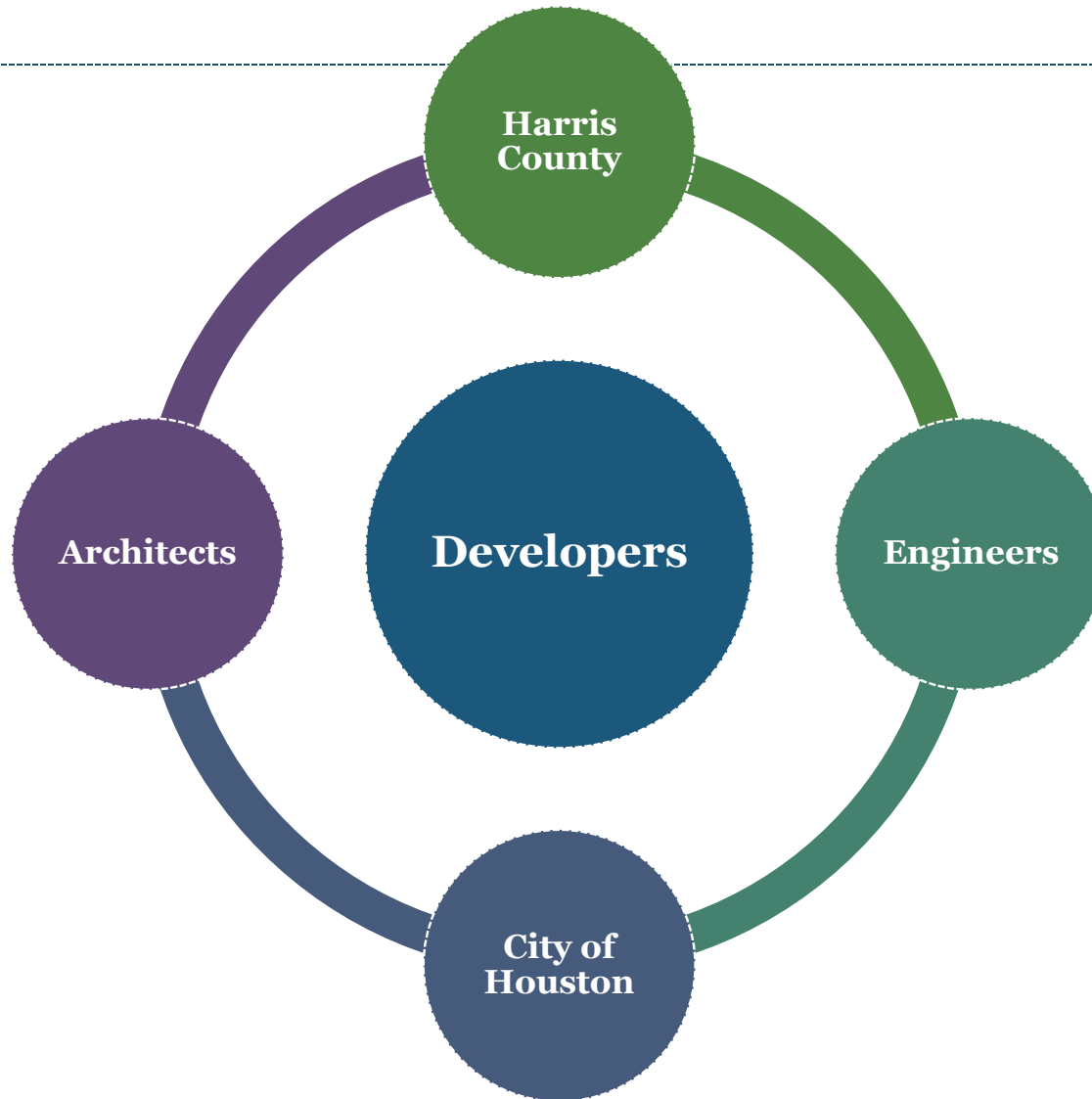
City of Houston/TIRZ 15

Harris County/Precinct 2

Underwriters/Services

Bayou Preservation Association/Terry Hershey

Key Drivers Leading this Competition



Introductions²



- Design Competition Subcommittee
 - Adriana Clowe, PE
 - David Batts, LEED AP
 - Dimetra Hamilton
 - Hayley Pallister, LEED AP
 - Janet Wagner
 - John Blount, PE
 - Kimberly Hickson, AIA
 - Matthew Newchurch, PE
 - Nick Russo
 - Tiffany Anders

Not participating on teams. Not participating, in or involved in, judging. May be viewed as a resource by all.

Competition Background



- **HLWSF founded September 2007**
 - Collaborative effort to educate and drive adoption of sustainable development practices.
 - Those with a vested interest seeking to control their own destinies
- **14 Educational Sessions in 2008-2009 to date**
 - ‘Levelers’
 - Workshops (1 – 2 day)
 - Houston Case Studies
- **LID Design Competition conceived to accelerate adoption, adaptation and implementation**

Why Participate?



- **Real Projects**
 - *Something* will be built
 - Actual property data is available
 - ‘Owners’ *want* to build with sustainable development practices
 - Will category *winners* get the actual work?
- **Expert Judges**
 - Leaders in their fields
 - What is impressing one or two or more of them worth?
- **Jury Panel**
 - Leading developers and the politically influential
 - What is the opportunity to present to them worth?



low impact development design competition

[introduction]

[competition objectives]

[eligibility]

[competition calendar]

[registration]

[design goals]

[design challenge categories]

[submission requirements]

[sponsors]

aia-houston/

Competition Objectives



- Provide a hands-on learning experience.
- Demonstrate the economic, environmental and marketing benefits inherent in projects developed using sustainable site practices.
- Encourage greater use of sustainable development practices.
- Recognize the creative adaptation and application of sustainable site practices.

Eligibility



- Integrated design teams which must include:
 - At least one Civil Engineer, [one Architect], one Landscape Architect.
- Inclusion of team additional team members encouraged
 - Land Planning, Development and Construction disciplines, including students.
- Individuals may participate on only one team in any Design Challenge Category.
- No limits on the number of individuals from a firm that may participate in the competition as members of teams.
- Teams members based outside the Houston area are welcome, but at least one member (one of the required professionals) must be verifiably Houston-based.

Competition Calendar



- 09/01/2009 Registration Opens
Competition Begins
- 10/31/2009 Registration Closes
- 12/14/2009 Submittals Required by 4:00 PM.
Competition Ends
- 01/11/2010 Finalists Announced
- 01/27/2010 Finals Event and Awards Program

Registration



- Registration fee of \$250 must accompany the completed Registration Form.
- Each Registration Form must:
 - Indicate the Design Project Challenge Category
 - Identify at least two of the required design professional team members (identify all others with submission)
- Upon acceptance of the Registration, an Identifying Number will be provided to the team via e-mail.
 - This number must be placed on ALL materials submitted, including the first page of the electronic submission, and on any and all correspondence.

Design Goals¹



- Conserve natural resources that provide natural functions associated with controlling and filtering storm water.
- Use decentralized, small-scale landscape features and LID Integrated Management Practices (IMP) to work as a system to:
 - Reduce the amount of runoff by mimicking the natural hydrologic function of the site and matching pre-development hydrology.
 - Minimize the use of and/or reduce the size of pipe and other centralized control and treatment infrastructure.
 - Lower the total cost of development when compared to traditional infrastructure design.

Design Goals²



- Minimize and disconnect impervious surfaces, lengthen time of concentration and promote bio-filtration of runoff to improve the quality of storm water leaving the site.
- Minimize or eliminate the use of potable water resources for irrigation and where practical provide for the reuse of rain water.
- Use enhanced quality of life values and reduced maintenance costs inherent in LID practices to increase marketability of the development and long term property values.

Submissions¹



- All entry submissions must be received no later than 4:00 PM, December 14, 2009.
- Each entry must be submitted as follows:
 - At least one, but no more than two foamcore presentation boards (30" x 40"), on which the team's key concepts and elements of the design are presented visually, including a summary of the economic and hydrologic modeling results.
 - ✦ Selected boards will be displayed, with identifying team information, at the Finals Event and Awards Program, and may be used in a traveling exhibit, following the competition.

Submissions²



- An electronic submission package must be provided on CD or on USB drive, in Power Point (PPT) format which includes:
 - ✦ All images and data contained on the foamcore presentation boards.
 - ✦ Images of all drawings, plans and details.
 - ✦ A written overview, presenting the design team's concept.
 - ✦ Justification for the hydrologic/drainage modeling used to develop design conclusions

Submissions³



- ✦ An explanation of project costs and an economic comparison with the same project if developed using traditional methods.
- ✦ Submission plan sets must include at a minimum: Site Plan, Drainage Plan, Landscape and Irrigation Plan, Elevations, Details.
- Electronic submissions are limited to a maximum of 30 Power Point pages.
- Submissions must include no identifying features or marks which might reveal the identity of any member of the design team or any organization that may be represented by members of the team.

Submissions⁴



- Submissions must include a Registration Form for team members not originally identified.
 - This Form must be submitted in a sealed envelope and marked on the outside with the team's identifying number.
- Submissions must also include an identification card (8.5"x11") containing team, and team member identification for display with the team's presentation boards at the Finals Event and Awards Program.
 - These cards must also be submitted in the sealed envelope on which the team's Identifying Number is prominently displayed.

Stage One – Expert Judges¹



- The first round of judging for each Project Design Challenge will be conducted by a panel of five Expert Judges.
 - Civil Engineering
 - ✦ Art Storey, PE
 - ✦ Executive Director, Public Infrastructure Division, Harris County, TX
 - Landscape Architecture
 - ✦ Dana Nunez-Brown, ASLA
 - ✦ Principal, Brown + Danos landdesign inc, Baton Rouge, LA
 - Low Impact Development
 - ✦ Larry Coffman
 - ✦ President, LNSB LLLP Stormwater Services Group, Chesapeake Beach, MD

Stage One – Expert Judges²



○ Architecture

- ✦ Greg Papay, FAIA
- ✦ Principal, Lake-Flato Architects, San Antonio, TX

○ Hydrology

- ✦ Stephen Costello, PE
- ✦ Principal, Costello Inc, Houston, TX

- Finalists will be determined by the scoring of the Expert Judges.
- Number of Finalists will be based on number of entries
- For Finalists, the Expert Judges' scores will represent 80% of their total final score.

Stage 2 – Finals Event¹



- Finalists will present their entries via Power Point, to the audience and a local Jury Panel made up of interested and influential development, civic and government leaders.
 - Tickets will be available to the public for the Finals Event.
 - In addition to the Finalists' presentation boards, the boards of selected entries may also be displayed with team name and member identities.
 - Finals Event designed with networking in mind.
 - ✦ An intermission while tabulations are made will provide time for networking, viewing of the presentation boards submitted by entrants and conversation.
 - ✦ The hall will open early to allow viewing of presentation boards

Stage 2 – Finals Event²



- Finalists must utilize a “Lightning Presentations Format” to present to the Jury Panel.
- Presentation format chosen to make each short, exciting and to the point, and to allow for participation of a maximum number of semi-finalists.
 - Each Finalist team will have up to 7 minutes to make their presentation.
 - A maximum of 20 Power Point pages (slides) may be utilized in the presentation.
 - Regardless of the number of pages used, the presentation must be set up on a timed sequencing routine to advance each slide.
 - No remote slide changers will be permitted.

Stage 2 – Finals Event³



- For more information on presenting using ‘Lightning Presentations’ and similar fast-paced presentation techniques, see Wikipedia.
- Scores of the Jury Panel will account for 20% of the Total Final Score for each Finalist team.
- Jury Panel scores will be combined with the Expert Judges scores to determine the winners in each category.
- Tabulation of Jury Panel scores and Total Final scores, and the determination of winners will take place immediately after the finalists make their presentations.



Low Impact Development Design Competition

[Links to Useful Information on Low Impact Development](#)

[Low Impact Development Center](#)

[LID Resources - Whole Building Design Guide](#)

[Livable Communities - Water Environment Research Foundation](#)

[Urban Design Tools](#)

[Puget Sound Partnership - Resources](#)

[EPA Factsheet - Reducing Stormwater Costs Through LID Strategies & Practices](#)

[EPA - Managing Wet Weather With Green Infrastructure](#)

Questions?



**FOR UPDATED INFORMATION, Q&A FEEDBACK
AND PARTNERING OPPORTUNITIES,
REGISTER AT:**

**[HTTP://GROUPS.GOOGLE.COM/GROUP
/HLWSF-LID-DESIGN-COMPETITION](http://groups.google.com/group/hlwsf-lid-design-competition)**

**TODAY'S PRESENTATIONS WILL BE POSTED
ON THE HLWSF WEBSITE**

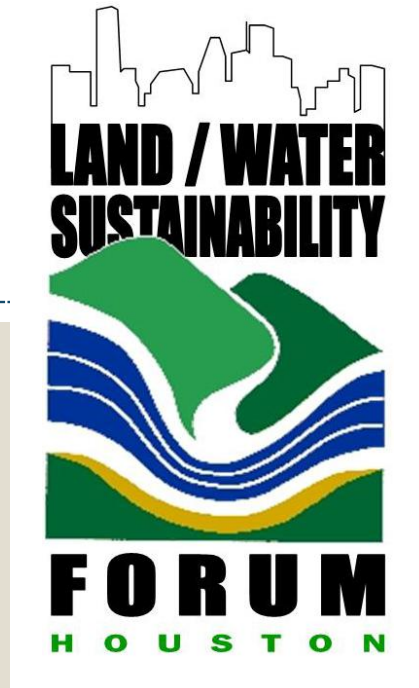
[WWW.HOUSTONLWSFORUM.ORG](http://www.houstonlwsforum.org)

UNDER 'RESOURCES'

Project Design Challenge Categories



- **Suburban Residential**
 - David Nussbaum, Vice President-Development
 - Mischer Investments, LP
 - Ventana Lakes
- **Urban Redevelopment**
 - Ralph De Leon, City of Houston Finance Department
 - TIRZ 15
 - Bastrop Promenade
- **Green Roadway**
 - John Blount, Director of Architecture & Engineering
 - Harris County, Precinct 2
 - Independence Parkway



Making Progress



**AND MAKING A
DIFFERENCE...**