

Our vision for *Louisiana House*

Home & Landscape Resource Center



*To shape the future
for Louisiana living*

Public - Private Partnerships



- Key Partners (grants, contracts)
 - La. DNR / U.S. DOE
 - USDA CSREES / EPA / HUD
 - La. OEP / FEMA
- Key Allies working together
 - 12 LSU departments
 - **Building America Teams (Building Science Corp & FSEC)**
- Key Contributors
 - gifts & in-kind donations from:
 - Entergy La., P. Manship
 - **La. Home Builders Assoc.**
 - Roy O Martin Lumber, Borate-Treated Wood Alliance
 - 80 + donors



SITE FEATURES LEGEND

EXHIBIT HOUSE

- Multiple building system solutions
- Energy & water-efficient
- Wood, steel, brick & terraces-retention
- Field and display-reception
- Healthy indoor air quality
- Universal Design (accessible)
- Advanced technologies
- Renewable & local resources
- On-site and Teaching Center (gym)
- Staff office space (exposed)
- Exhibit room (reconfigurable)

PAVING AND PARKING

- Sustainable management/transportation
- Source pollution reduction systems
- Porous paving alternatives
- Reduced heat island (cool roofs, shade)
- Green design
- Phased development
- Bus accommodations
- Walking paths & trails

SIGNAGE

- Entry graphics and sign
- Site/branding signs (directional)
- Landscape portal
- Information kiosks

FUTURE EXHIBIT HALL

- Changing Exhibits
- Larger Meeting space
- Sustainable commercial building design

FUTURE PAVILION

- Stable structure for outdoor environmental landscaping education
- Use of local resources

LANDSCAPE EXHIBITS

AREA A

- Ornamental plant adaptability
- Drought/ground cover demo
- Bedding plant display
- Low-maintenance display - St. Augustine

AREA B

- Xeriscaping exhibits
- Native trees, shrubs, ground cover
- Tree preservation / fertilization
- Plant exhibits
- Turf display - Coriopsis

AREA C

- Low-maintenance ornamentals
- Landscapes bed weed control
- Turf display - Zoysia

AREA D

- Integrated Pest Management exhibits
- Termite & fire ant control systems
- Turf grass pest management
- Perennial & ornamental grasses
- Turf display - Bermuda
- Floodwall & berm exhibits
- Other structural displays

AREA E (house porch)

- Energy conserving landscaping
- Wind-resistant landscaping
- Rainwater harvesting for irrigation
- Water conserving irrigation systems
- Rain-fed filter waste water treatment
- Home composting
- Mulching / bed preparation
- Best management practices
- Heritage species

AREA F

- Herb garden, edible plants & soil
- Succulent exhibits
- Turf display - carpetgrass

AREA G

- Wildlife habitat
- Butterfly & hummingbird garden

AREA H

- Commercial market
- Cypress trees, grass, wetland plants

LaHouse Master Site Plan



Robert H. Gray
ARCHITECTS
A PROFESSIONAL CORPORATION

***Blending of LaHouse criteria
with local style criteria***

Criteria *for House & Grounds*

Resource Efficient

energy efficiency

water conservation

waste management

pollution prevention

Durable

wind & flood resistance

pest resistance

decay & mold resistance

hail & fire resistance

Healthy

indoor air quality

IPM

universal design

Practical

marketable

cost-effective, available

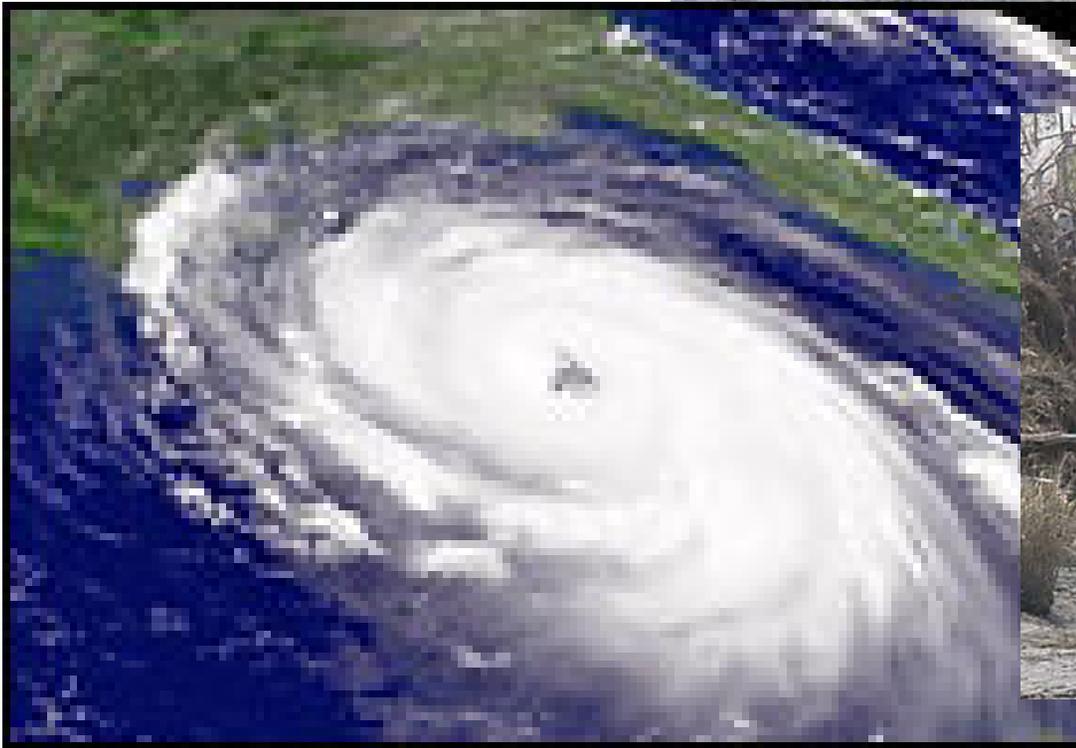
Convenient

functional

low-maintenance

information technology

Then
came
Katrina
and Rita



**and new
meaning
and
focus...**



***Rebuild
Stronger, Safer, Smarter
educational outreach and training
initiative***

Plan of Action

- **Wind and Flood Code Trainings**
 - ICC, IBHS, FEMA, LHBA, NAHB, Solutia...
- ***Best Building Practices for the Gulf Region***
 - Tour of 6 La. cities in April-May by Joseph Lstiburek – & new localized materials
- **Multi-agency Collaborations**
- **Certificate Program w/ incentives**
- **Research Info conduit & “filter”**
- **Consumer educational campaign**
- **Mass media**

Louisiana House
Louisiana House
Home & Landscape Resource Center

Today

Mid-construction Open House

While the walls are open, attend an Open House and see how to fortify your house for stronger, safer and smarter living.



On Gourrier Lane, next to the LSU Golf Course.



www.LouisianaHouse.org

**Open
House
Fridays**

9:00 - 4:30

**in response to
Katrina and Rita**

Consumer Education

The key to adding value for high performance

Print and online consumer guides

Order Publications Online

[Website link](#)

Improve Your Home and Profit

A six-page fact sheet about ways to get the most from your remodeling investment by including the right energy-saving and hazard-resistant home improvements.

[Website link](#)

Building Your Louisiana House

Our newest guide to creating a home that:

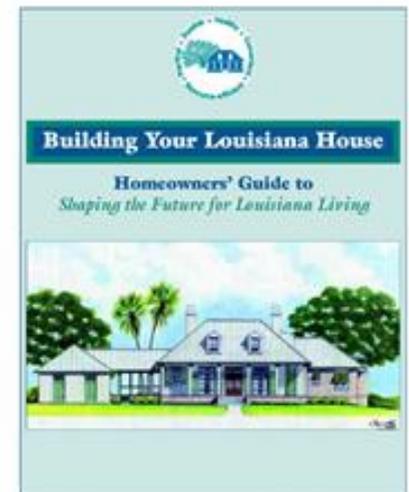
- keeps comfort affordable by being energy-efficient;
- is protected from mold, termites, storms, and other hazards;
- is healthy, safe and convenient for a lifetime
- protects our environment for future generations

[Website link](#)



[\[download image\]](#)

Improve your Home and Profit



A flood of media, public and agency interest



The Times-Picayune

THE MARKET FOR HOMES

ST TAMMANY

REAL ESTATE

AND THE HOME

COVER STORY

PHOTO: JENNIFER ROY/COURTESY OF LSU AGCENTER

The Louisiana House, Home and Landscape Resource Center, ABOVE, under construction in Baton Rouge and scheduled to open late next year, will aim to give consumers insight on home construction and renovations.

SOLUTION CENTER

AgCenter project arms homeowners with what they need to know in building or renovating

By Julia Kamyse Lane
Contributing writer

Building or remodeling a home is no easy task. There is a wide variety of materials and building systems from which to choose, and the process can be overwhelming for even the most experienced consumer. But Louisiana State University's AgCenter is creating a solution: the Louisiana House, Home and Landscape Resource Center, also known as LaHouse. The facility, under construction in Baton Rouge and scheduled to open late next year, essentially will be a showcase home highlighting various aspects of housing design and construction. It will include a teaching center, exhibit area and seven acres of educational landscape exhibits.

for homeowners, providing impartial, research-based information and ideas. For example, the home will showcase four building systems, four foundation systems and three ventilation and heating systems. A variety of materials, products, design and architecture will also be on display. "Consequently, it will be a permanent, evolving resource for housing builders and designers," said Claudette Reichel, a professor and housing specialist at the AgCenter. "It's a unique opportunity in the state." "That's the greatest thing about the LaHouse," said Scott Colbourne, executive vice president of the Home Builders Association of Greater New Orleans. "It will show all different kinds of floors, framing structures, the latest in resource efficiency, the durable resistance of



position to budget the building of their new home." Reichel said the inspiration for LaHouse stemmed from a similar project in Sarasota, Fla., called the Florida House Learning Center. It was built as a government initiative in the mid-

development and to promote housing that is affordable and energy efficient. "It was extremely successful and receives visitors from around the world," Reichel said. "We thought it was such a great project that I proposed the idea to Bill Richardson, our chancellor (of the AgCenter), and he said, 'Let's do it!'" LaHouse is being built to meet five criteria. The home must be resource efficient, durable, practical, convenient and meet certain health requirements. The health requirements pertain to indoor air quality, pest management and a housing design that accommodates all ages. The house also will show a range of solutions to the various environmental challenges that Louisiana faces, including hurricanes and floods, Formosan termites and mold. "We hope to stimulate adoption of these good solutions and practices that address these issues," Reichel said. "To do that, we know the things we try

adequate convenience to the homeowner and builder alike. Otherwise, they're not going to sell." Although the LaHouse will be a newly constructed home, Reichel said it will be helpful to owners of historic homes. "Some of the things we will be showcasing can only be done in an add-on capacity or a new building," she said. "But we're going to strategically include things that are retrofittable so anyone can take away something to apply to any existing home." "A big problem in places like New Orleans is that these old homes were built before modern air conditioning. Now we air condition and try to insulate buildings that were not designed for that, and they develop moisture problems. Those things come from a lack of understanding of the building science principles. We want to teach people that they can weatherize any home and make it more comfortable." *****

Four *Fortified*.. building systems



Building Systems

- Showcase a **range** of good options
- **Integrate and balance** criteria
- House segments
 - Improved 2X4, OVE, SIPS
 - 3 foundation, attic, duct systems
 - 2 HVAC systems
- Garage/teaching center
 - ICF, alternative HVAC & attic

Flood Protection

- **Elevated house**
 - 3 raised foundation types
- **Dry floodproofed garage/classroom**
 - exterior waterproofing
 - flood closures
- **Wet Floodproofing**
 - elevated equipment, utilities
 - water-resistant materials
 - removable wainscoting on a drainable wall



Wind Resistance

- Roof design
- Rated roofings
- Structural sheathing
- Connectors for continuous load path from foundation to roof
- Window protections (10 types)
- Rated garage door



Demo *Fortified for safer living* guidelines

LaHouse Safe Room (MBR closet)



Low cost wood frame Safe Room (not FEMA standard) with separate framing and ceiling, pocket for sliding impact door – for hurricane and mild tornado resistance

Healthy

- **Integrated pest management**
- **Universal design**
- **Good indoor air quality**



www.LouisianaHouse.org

LSUAgCenter.com
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LSU AgCenter

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family & home

About LaHouse

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Louisiana House - Home & Landscape Resource Center

A research-based
SHOWCASE OF SOLUTIONS
and educational outreach program
of the LSU AgCenter and many partners
with a vision of:

MORE comfort, quality, durability, value,
convenience and better health with

LESS energy, water, pollution, waste, and
damage from natural hazards.



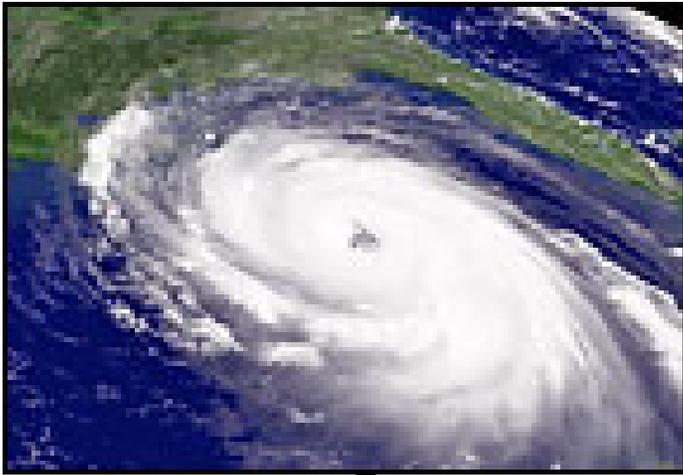
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Highlights and News

- [Open House on Fridays](#)
- [Construction is Underway!](#)
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- [Entry Honored as Diamond Key Contributor](#)

sub-topics

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**Katrina and Rita
proved...**

**As we shape our
homes,**



***We shape our
future.***

www.LouisianaHouse.org