



Westlake High School
TECHNOLOGY & ENGINEERING EDUCATION DEPT.

STEM, TRIZ, AP CSP, Architecture, Engineering, Design, & Innovation Studies

FOR IMMEDIATE RELEASE

Date: 1-28-17
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Re: **The Great Big Home & Garden Show 2017:
"20TH Annual Student Model Home Design Contest"**

Cleveland, OH. - The Great Big Home and Garden Show, February 3-12 at the I-X Center, will showcase the top ten area high school model home designs from the 20th annual Student Model Home Design Contest, held January 27, 2017 at Cuyahoga Valley Career Center in Brecksville.

The Westlake High School senior team of **MARK SARGENT, HONG LIANG, DAVID EPPELE & SNEHA RAMACHANDRAN** took first place and the overall grand prize winning the \$1000 scholarship. They also won the "Best Model", "Best CAD/3D Drawings", "Best Presentation", "Best Smart Home Technology" (\$150 cash award), and "Best Green Building" (\$350 cash award) specialty categories.

Second place overall went to the Westlake sophomore team of **KAITLIN WILLI, CONNOR HARTE, & CONNOR REIS**. They also finished 3rd in the "Best Green Building" category (\$150 cash award).

Finishing third overall was the Theodore Roosevelt High School (Kent) team of **BAILY LUND-GOLDSTEIN, JESSICA STEFANKO, & ERIK KINGSLEY**. They also finished 2nd in the "Best Green Building" (\$250 cash award) category.

Finishing fourth overall went to the Westlake team of **MICHAEL REES, ROBERT FULOP, & PATRICK GHEEN**.

Finishing fifth overall went to the Excel TECC (Mayfield) team of **EMILY PIETRANTONE, ROBBIE HALL, & DEVON MEDSKER**. They also won the "Architectural Design Award of Merit" category.

Finishing sixth overall went to **NICHOLAS VICKROY** of Bay Village High School.

The remaining TOP TEN finalists were:

7th – the team of **DEREK RADCLIFF, IZAIHA TUPA, LEO RIEGER, & SEAN LAHMAN** (Theodore Roosevelt High School);

8th – the team of **ADAM RETYCH & AIDAN ZALAR** (Auburn Career Center);

9th – the team of **OLIN NISHIZAKI, KAYLA MORRIS, & SETH PERTZ** (Auburn Career Center);

10th – the team of **JACK MCMICHAEL, JACOB JOHNSON, & BRUCE TUROS, JR.** (Cuyahoga Valley Career Center).

All of the top ten winning entries will be displayed at The Great Big Home & Garden Show, February 3-12, at the I-X Center (booth #1683).

Keynote speaker for the awards ceremony was builder, designer and business owner **ENZO PERFETTO** of Enzoco Homes. He discussed the value of design, engineering, architecture, construction, and the building trades in our lives and how there are bountiful career opportunities in the related fields. He spoke of the importance of people who make, build, and maintain things, how there are countless jobs in the industry going unfilled, and how the student model home design contest is a terrific springboard to a future in a related career.

Sponsored by the American Concrete Institute NE Ohio Chapter, Kertes Enterprises, Inc., The Home Depot, Brian Gilbert of Coldwell Banker, Northeast Ohio Technology & Engineering Educators Association, The Chas. E. Phipps Company, and Marketplace Events, these future architects, engineers, designers, contractors, and artisans were challenged to design a house that's marketable, innovative, energy-efficient, and addressed the wants and needs of a family of four.

This year's student contest theme was "**The Great Urban Reuse House**". Students were challenged to design a functional and aesthetically pleasing full-time primary residence (adaptive reuse). The 2,200 sq. ft. house was to be designed for the purpose of accommodating a couple (millennial or empty nester) who plan to convert an existing structure in an older but walkable urban neighborhood to take advantage of nearby work and retail spaces, restaurants, and amenities including rec centers, bike trails, pocket parks, and entertainment venues. These developments are a growing trend in helping to reduce urban sprawl, rejuvenating abandoned eyesores, and preserving historical landmark buildings. The couple will be selecting one of the following for the conversion into their residence: unused warehouse; old brownstone; vacant church; empty storefront; old grain silo; or vacant schoolhouse. The couple also wanted a residence that incorporates "green" and "smart" technology.

The students were instructed to design the house featuring an above grade concrete home (ICF – Insulated Concrete Form) system, while incorporating appropriate and creative use of other building elements, such as energy efficient and environmentally conscious products and systems to reduce energy costs.

Concrete building technology design offers homeowners increased energy efficiency, lower maintenance and substantial cost savings. Because of their unique construction properties, concrete buildings can be designed with virtually any type of exterior and interior. Concrete is one of the most fire-resistant construction materials available, and the strength and durability of concrete walls offer unmatched resistance to the devastation of major storms.

Using their knowledge of architectural design, green building design technology, smart home technology, and concrete construction, student entries included floor plan & elevation drawings as well as the much anticipated scale model homes. They were judged in 15 separate categories, including design, planning and innovations, energy-conserving features, drawing presentation, model presentation, and exterior design. Schools entered this year included Auburn Career Center, Bay Village High School, Four Cities Educational Compact (Wadsworth), Excel TECC (Mayfield Schools), Orange High School, Theodore Roosevelt High School (Kent), Westlake High School, and host Cuyahoga Valley Career Center. A panel of building industry professionals from across the area evaluated the student designs.

In its 20th year, the student contest is nationally recognized by the International Technology & Engineering Educators Association (ITEEA) for promoting technological literacy, energy efficiency and environmentally conscious design, engineering, construction and architecture.

“The students did an amazing and creative job this year, especially since they were able to select from 6 different existing structures and convert into a residence!” said Jeff Bee, Engineering and CAD technologies instructor at Theodore Roosevelt High School (Kent). The “Great Urban Reuse” theme helped students realize and appreciate that these developments are a growing trend in helping to reduce urban sprawl, rejuvenating abandoned eyesores, and preserving historical landmark buildings.”

“Also, incorporating many Green and Smart building features in the design was a great way to bring innovative construction technology into a project of this kind. It’ll be a real must see and visual display at the I-X Center for this year’s show. We are very fortunate to have The Great Big Home and Garden Show management provide a first-class venue to showcase the students’ work. It’s truly a great way to recognize and honor the outstanding efforts made by these future architects, engineers, designers, builders, inventors, and artisans.”

MARK YOUR CALENDARS!
The Great Big Home & Garden Show
February 3-12, 2017 at the IX Center