



Westlake High School

TECHNOLOGY & ENGINEERING EDUCATION DEPT.

A-STEM, TRIZ, UAS Drone Technology, Architecture, Engineering, Design, & Innovation Studies

FOR IMMEDIATE RELEASE

Date: 1-17-2020
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**CUYAHOGA VALLEY
CAREER CENTER**
YOUR COLLEGE & CAREER RESOURCE CENTER

**Re: The Great Big Home & Garden Show 2020:
"23rd Annual Student Model Home Design Contest"**

Brecksville – Cuyahoga Valley Career Center will be the site for the judging and awards presentation portion of The Great Big Home & Garden Show 23rd Annual Student Model Home Design Contest. The judging will take place on Friday evening (1-17-20) at approximately 5:30 p.m. in the commons.

This year's student contest theme is "**The Great Opportunity Zones House**".

The awards presentation will be Saturday morning (1-18-20) starting at 10:00 a.m., also held in the school commons. The presentation will conclude at approximately 11:00 a.m.

The top ten winning models and drawings will be displayed at The Great Big Home and Garden Show, January 31 - February 9 at the I-X Center. The grand prize winner will be awarded a \$1000 scholarship to further his/her education in a related technical field. Additional awards include the 6 specialty categories of "Architectural Design Award of Merit", "Best Presentation", "Best Model", "Best CAD/3D Drawings", "Best Green Building", and "Best Smart Home Technology".

Sponsored by the American Concrete Institute NE Ohio Chapter, Equity Trust, Holdfast Technologies, Brian Gilbert of Coldwell Banker, Northeast Ohio Technology & Engineering Educators Association, and Marketplace Events, these future architects, engineers, designers, contractors, and artisans were challenged to design an Opportunity Zones House that's marketable, innovative, energy-efficient, and addressed the wants and needs of a family wanting a single family house in an urban community.

The Opportunity Zones incentive is a new community investment tool established by Congress in the Tax Cuts and Jobs Act of 2017 to encourage long term investments in low-income urban and rural communities nationwide. Opportunity Zones provide a tax incentive for investors to re-invest their unrealized capital gains into dedicated Opportunity Funds.

Students were to create a functional, aesthetically pleasing, affordable, and full-time primary residence house, incorporating the ICF (Insulated Concrete Form) system into the structure. The house was to be designed for the purpose of accommodating a family who plans to build in the Cleveland area. The client wants the design to incorporate “smart” and “green” technology, yet have most amenities and features seen in similar upscale houses. With a range of 1,500-2,200 sq. ft. per house, the total project is budgeted at a maximum of \$242,000. “Green Building & Construction Technology” innovations and creativity were to be included.

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 will include floor plan & elevation drawings as well as the much anticipated scale model homes. They will be judged in 15 separate categories, including design, planning and innovations, energy-conserving features, drawing presentation, model presentation, and exterior design. Schools entered this year include Auburn Career Center, Excel TECC (Mayfield Schools), Theodore Roosevelt High School (Kent), Westlake High School, Avon Lake High School, 4 Cities Compact (Wadsworth), and host Cuyahoga Valley Career Center. A panel of building industry professionals from across the area will evaluate the student designs.

MARK YOUR CALENDARS!

The Great Big Home & Garden Show

January 31 - February 9, 2020 at the IX Center