



the Green House Venture

Media Conference Agenda

(future building site: Lawrence and DeTonty)

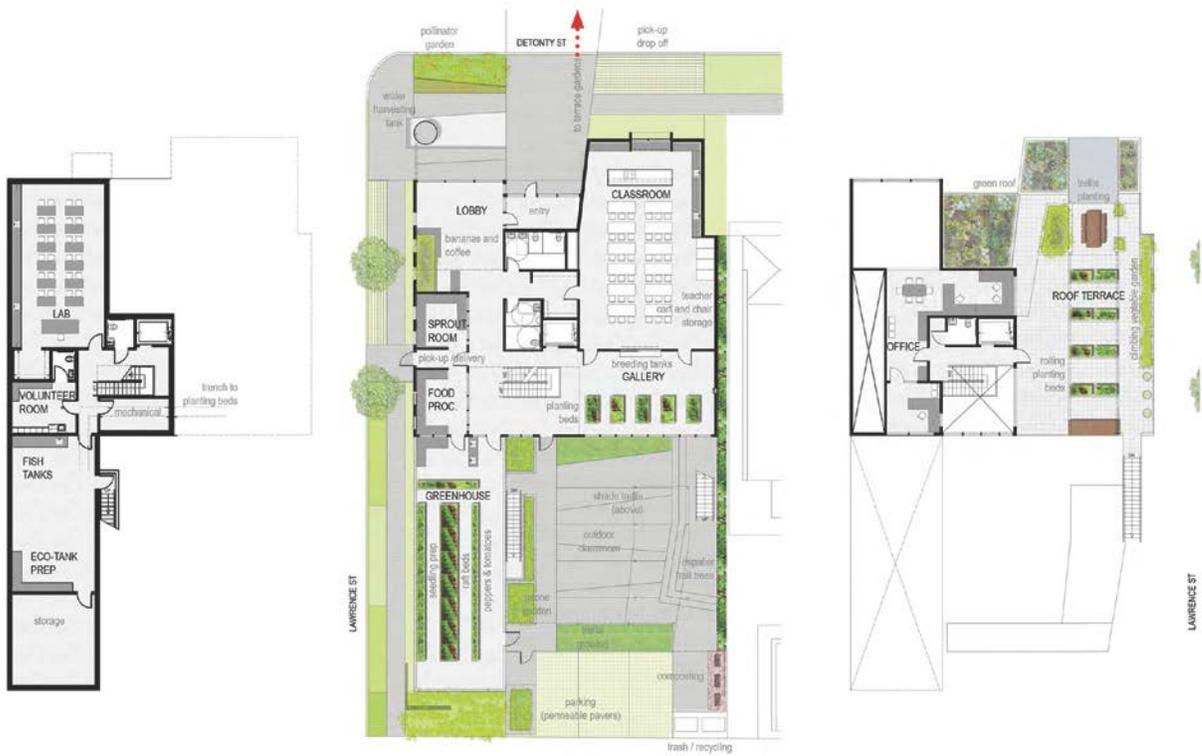
Wednesday, October 28, 2015

- 1:30 pm Registration Opens
- 2:00 pm Opening Remarks
Thomas Purcell, President-Green House Venture Board of Directors
- Honorable Francis G. Slay, Mayor**
City of St. Louis
- Dr. Peter Raven, President Emeritus**
Missouri Botanical Garden
- Dr. Donald Stump, Professor**
Saint Louis University
- Urban Education Alliance Schools
- **Juliann DePalma Hesed-St. Margaret of Scotland**
 - Kelly Casper, Mullanphy Investigative Learning Center
 - Mike Gregory, Tower Grove Christian Academy
 - Whitney Seward, St. Louis Language Immersion School
- Sarah Gibson, Principal**
UIC
- Honorable Stephen Conway, Alderman**
8th Ward
- 2:30 pm Closing Remarks and Q/A
Thomas Purcell, President-Green House Venture Board of Directors
- 2:35-3:00 pm Interviews and exhibits

THE GREEN HOUSE VENTURE

RENDERINGS





LOWER LEVEL PLAN

1ST FLOOR PLAN

2ND FLOOR PLAN



THE GREEN HOUSE VENTURE

Plans Unveiled for \$4 Million Nutrition and Science Education Center

St. Louis, MO – October 28, 2015 – Plans were announced today for the development of The Green House Venture, a new urban resource and education center that will work on two significant challenges facing St. Louis and other large American cities: the need for better nutrition and improved science education. The Green House Venture will focus on urban food production and distribution using an innovative combination of educational techniques for elementary school students under the direction of Saint Louis University.

The focal point of the Green House Venture is an 8,000-square-foot science education and outreach facility, located at the corner of Lawrence and DeTonty Streets. It will contain a greenhouse, classrooms, a children’s growing gallery, an amphitheater and a teaching lab, all designed to stimulate an interest in science, urban food production, community engagement, sustainability and economic development.

“In addition to improving the quality of life in our community, the emphasis on nutrition and science education will enhance the academic strength and social character of the schools and students participating in this project,” said Tom Purcell, president of The Green House Venture.

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Vice President

David Reid
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Jack Krings
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Kelli Casper

Michele Duffe

Mike Gregory

Juliann DePalma Hesel

Ann M. Rule, Ph.D.

Whitney Sewell

Maurquita Washington

Jacqueline Wellington

Earlier this year, the four inaugural elementary schools participating in the Venture agreed on an organizational structure that led to the newly formed Urban Education Alliance District, including the following schools:

- Mullanphy Investigative Learning Center
- Saint Louis Language Immersion School
- Saint Margaret of Scotland School
- Tower Grove Christian Academy

Students in the four schools comprising this innovative partnership come from over 50 zip codes with large African-American and Caucasian populations, as well as children from other ethnicities, including Asian, Hispanic and multi-racial. The District currently has over 2,000 students with the potential to grow if other neighborhood schools join the alliance. The principals of these schools and professors from Saint Louis University are working with teachers on the development of the curriculum and design of the facility.

“What kids will experience is a combination of Gandalf’s greenhouse, a living classroom, and instructional television studio, streaming video and live learning sessions to other students in the region,” said Dr. Donald Stump, Venture board member, Saint Louis University professor and Director of the Micah Urban Poverty Program. “In the cities of 2050, more of our food will have to be grown locally. We want to help children prepare for that future.”

The location in the Shaw neighborhood was chosen in part because of its close proximity to major scientific, educational and economic institutions such as Cortex, the Missouri Botanical Garden, Saint Louis University and Washington University.

Inside the facility, the Venture will demonstrate a number of sophisticated aquaponic growing techniques involving fish breeding, plant fertilization from fish tanks, soilless beds, and vertical growing. Outside, it will feature a weather station, an ozone garden, a shade trellis, a climbing fruit garden, a pollinator garden, and lightweight aeroponic growing on a roof-top terrace.

Sustainability features of the facility include geo-thermal heating, water conservation methods, composting and solar panels. Across DeTonty Street on the I-44 hillside, there will be a series of raised terraces for growing native Missouri crops and exploring the feasibility of producing food on unused roadsides. Food produced by the Venture will be distributed to students in need at eight city schools by the Saint Louis University Department of Nutrition and Dietetics through the Salus Center.

To expand the availability and impact of the Venture, the facility will be equipped with advanced communication technology capabilities that will make programs accessible to other schools in the metropolitan area through online videos and live streaming of teaching sessions. Venture leaders view this outreach component as a vital part of a broader vision to establish similar facilities and educational partnerships throughout the St. Louis region.

The building and its contents will cost an estimated \$4 million, and it will be operated by Saint Louis University. Fund raising for the project is underway, and it is expected to be completed and operational by 2019.

“The Green House Venture is truly an innovative addition to the education landscape of Saint Louis,” said Purcell. “It will bring significant focus to critical health and education issues that must be addressed to ensure the future vitality of the region.”

(Additional information on the Green House Venture is available at www.greenhousestl.org)

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THE GREEN HOUSE VENTURE

The Green House Venture

Overview

As the City of St. Louis redefines and renews itself, important choices must be made regarding economic development, social balance and growth, infrastructure, education, and other essential factors to ensure a competitive, vibrant and relevant future for the region. Those choices are particularly crucial for a city whose population has declined from over 850,000 in the 1950's to under 320,000 today, creating an ever-present urgency to determine the best course for the community to survive and thrive.

Within this climate, community meetings occurred in the fall of 2014 involving residents of the city's Shaw neighborhood, professionals from a variety of disciplines, and representatives of Saint Louis University to discuss the development of an urban resource center focused on two significant challenges facing St. Louis and other large American cities: the need for better nutrition and improved science education.

From this series of community meetings grew a commitment to develop a project called the Green House Venture focused on urban food production and distribution using an innovative combination of educational techniques for elementary school students under the direction of Saint Louis University.

To bring the project to life, several key steps were taken. A formal organization was created; a 501(c)(3) designation was obtained; a Board of Directors was formed; legal and organizational structures were created for the new

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Urban Education Alliance District; and an architectural firm was retained to design and build a facility. The location for the Venture center was chosen in an area with a concentration of elementary schools that are in close proximity to major scientific, educational and economic institutions.

The four elementary schools that comprise the newly formed Urban Education Alliance District include:

- Mullanphy Investigative Learning Center
- Saint Louis Language Immersion School
- Saint Margaret of Scotland School
- Tower Grove Christian Academy

This unique education partnership includes over 2,000 students, representing African-American, Asian, Caucasian, Hispanic and multi-racial students. In this collaboration that crosses traditional educational boundaries, the principals of the elementary schools and professors from Saint Louis University are working with teachers in the development of the curriculum and design of the facility. Food produced by the Venture will be distributed to students in need at eight city schools by the Saint Louis University Department of Nutrition and Dietetics through the Salus Center.

The focal point of the Green House Venture is an 8,000-square-foot science education and outreach center located at the corner of Lawrence and DeTonty Streets. It will contain a greenhouse, classrooms, an amphitheater, a children's growing gallery, fish tanks, food preparation kitchen and a teaching lab, all designed to stimulate an interest in science, urban food production, community engagement, sustainability and economic development.

Inside the facility, the Venture will demonstrate a number of sophisticated aquaponic growing techniques involving fish breeding, plant fertilization from fish tanks, soilless beds, and vertical growing. Outside, it will feature a weather station,

an ozone garden, a shade trellis, a climbing fruit garden, a pollinator garden, and lightweight aeroponic growing on a roof-top terrace. Sustainability features of the facility include geo-thermal heating, water conservation methods, composting and solar panels.

Across DeTonty Street on the Interstate 44 hillside, will be a series of raised terraces for growing native Missouri crops and exploring the feasibility of producing food on unused roadsides. In addition to on-site educational activities, portable school kits will be made available for teachers to take back to their classrooms.

To expand the availability and impact of the Venture, the facility will be equipped with advanced communication technology capabilities that will make programs accessible to other schools in the metropolitan area through online videos and live streaming of teaching sessions. Venture leaders view this outreach component as a vital part of a broader vision to establish similar facilities and educational partnerships throughout the St. Louis region.

The building and its contents will cost an estimated \$4.0 million. Fund raising is underway for the project, which is expected to be completed and operational by 2019.

The Green House Venture is truly an innovative addition to the education landscape of the St. Louis community, one that will bring significant focus to critical health and education issues that must be addressed to ensure the future vitality of the region.

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THE GREEN HOUSE VENTURE

Urban Education Alliance District

In the fall of 2014, a series of community meetings were held to explore the development of an innovative urban science education partnership called the Green House Venture. Building on plans developed two years earlier by Saint Louis University, the decision was made to locate the Venture nearby several elementary schools within three-quarters of a mile of the proposed educational facility at the corner of Lawrence and DeTonty Streets in the city's Shaw neighborhood.

To formalize the partnership, the Green House Venture board of directors, working in conjunction with community groups, formed the Urban Education Alliance District. The District became a legal entity with the final execution of a Memorandum of Understanding by four elementary schools and Saint Louis University. Those schools include:

- Mullanphy Investigative Learning Center
- Saint Louis Language Immersion School
- Saint Margaret of Scotland Parochial School
- Tower Grove Christian Academy

Principals of the schools are full members of the Green House Venture board of directors, participating on board committees and playing a pivotal role in determining the design and curriculum of the program. Students in the four schools come from over 50 zip codes, comprising large African-American and Caucasian populations, as well as children from other ethnicities, including Asian, Hispanic and multi-racial. The District currently has over 2,000 students with the potential to grow if other neighborhood schools join the alliance.

The location of the Urban Education Alliance District affords several opportunities for the Venture, as well as the participating schools due to its proximity to major institutions, such as Cortex, Washington University, Saint Louis University and the Missouri Botanical Garden, plus major commercial development and entertainment areas. The combination of those neighborhood assets with the diverse student bodies and distinctive educational philosophies from participating schools provides an array of rich and creative benefits for the District and the surrounding community.

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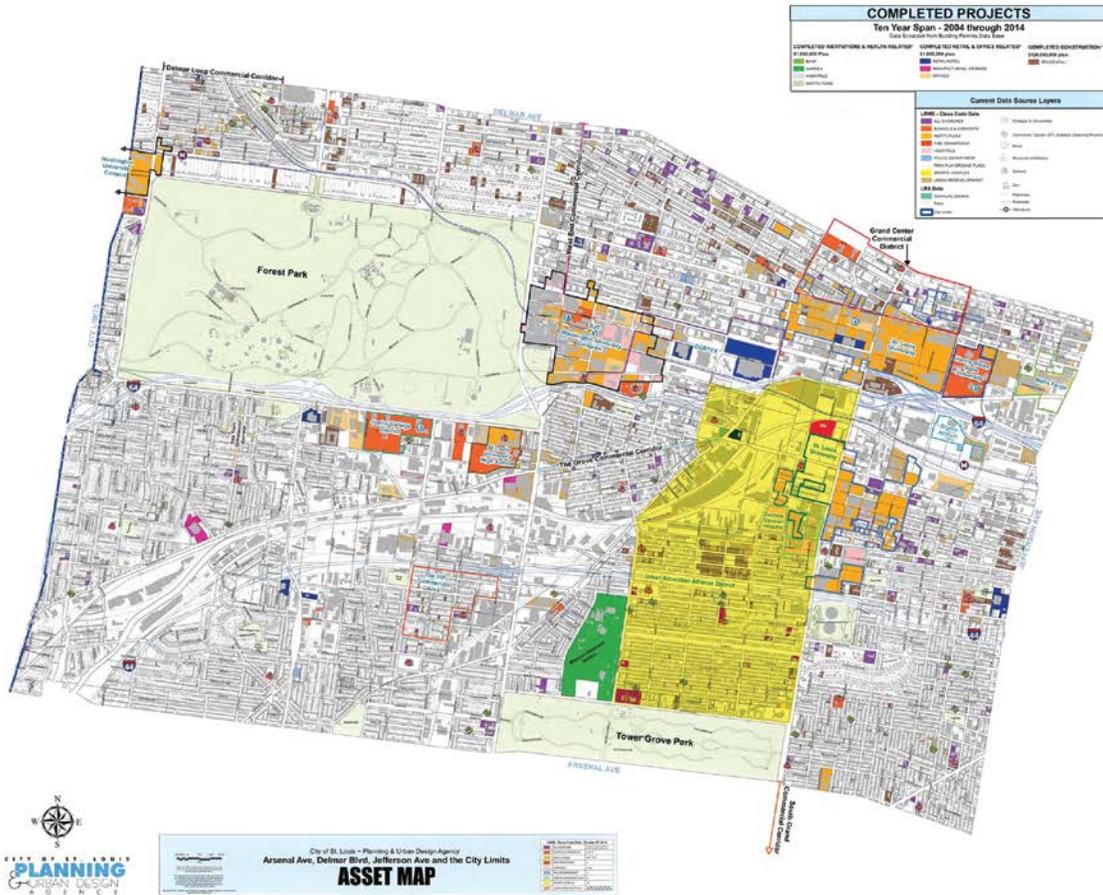
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Maurquita Washington

Jacqueline Wellington

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THE GREEN HOUSE VENTURE



City of St. Louis - Planning & Urban Design Agency
 Arsenal Ave, Delmar Blvd, Jefferson Ave and the City Limits
ASSET MAP

THE GREEN HOUSE VENTURE

www.greenhouseSTL.org



The *Green House* Venture
Growing, Learning and Sharing - to make a better Community and a better World.

Groundbreaking Partnership

The Venture brings Saint Louis elementary schools, each with its own distinctive mission and character, in a single Urban Education Alliance District.

Hands-On Learning

Kids from Alliance schools will learn to plant, harvest, and cook healthy food in a real world production facility, one that supplies produce for school-lunches to children in need.

New Ways of Teaching

Fresh thinking occurs when teachers share ideas with other teachers, older kids teach younger ones, and students with hearts for learning are mentored to excel.

Model for Sustainability

Designed to be stingy with electricity and friendly to the environment, the facility will display all its heating, cooling, electrical, and growing systems behind glass.

Strengthened Community

When children from diverse backgrounds grow, cook, and learn together, their families also engage, adding strength and vitality to the web of urban life.

Innovative Urban Agriculture

The growing techniques explored in the facility turn rooftops green, bring fish and plants together in micro-ecosystems, and reclaim grassy roadsides for native Missouri crops.

"In order to make St. Louis a nationally and internationally recognized city of innovation, all of us need to contribute our vision, resources and hard work in the development of meaningful initiatives. The Green House Venture project is clearly an effort that can have a profound impact not only in the City of St. Louis, but as a demonstration project that others can copy elsewhere..."

— Dennis Lower — President & CEO, CORTEX - Innovation community