

# A CASE FOR SUSTAINABILITY

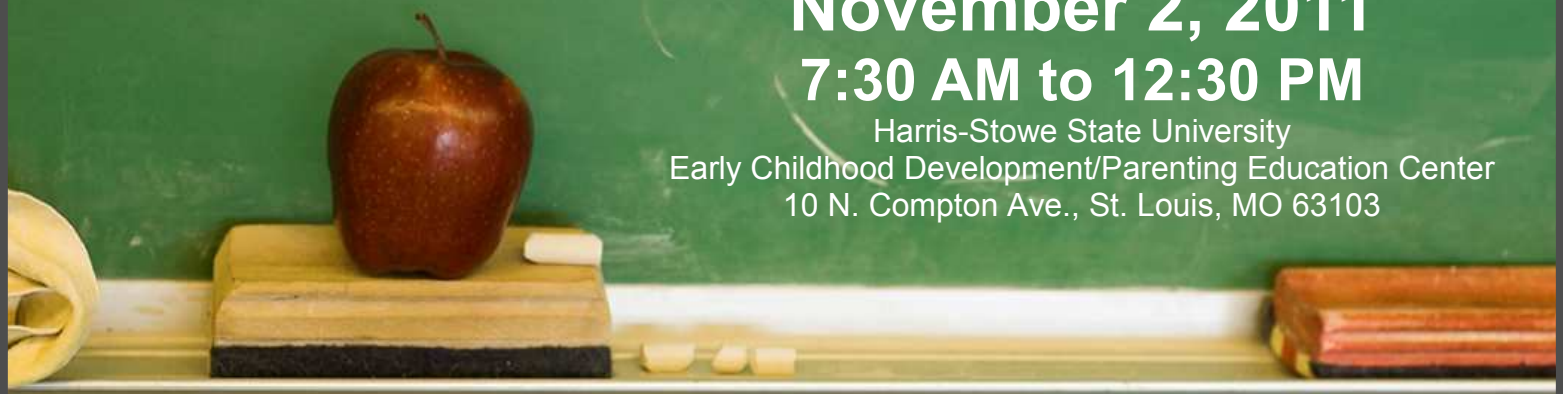
## Local Schools Go Green

***A FREE Workshop for School Educators,  
School Administrators, and the General Public***

**November 2, 2011**

**7:30 AM to 12:30 PM**

Harris-Stowe State University  
Early Childhood Development/Parenting Education Center  
10 N. Compton Ave., St. Louis, MO 63103



### **Keynote Address: The Nation's First Net-Zero Energy Elementary School**

Located in Bowling Green, Kentucky, Richardsville Elementary produces more energy than it consumes! Learn how the school district changed mindsets and offset \$6 million in energy costs in less than eight years.



### **Educational Sessions Featuring Local Schools' Green Initiatives**

Learn about green initiatives in the following schools and districts: Bayless, Brentwood, City Garden Montessori Charter, Edgar Road Elementary in Webster Groves, Hazelwood, Maplewood Richmond Heights Middle School, The New City School, Parkway, and Wyland Elementary in the Ritenour School District.



### **Closing Plenary: Green Schools and State Government**

A Green Schools Caucus is a bipartisan group of legislators who support the educational outreach and implementation of green schools that are healthy, environmentally friendly which promote learning, save taxpayers money and benefit everyone. Learn more and share your thoughts during this discussion of State Legislation on Greening Schools and the impact of a Green Schools Caucus.

### **Presented by:**



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*See reverse side for more details on educational sessions.*

**Register at [www.usgbc-mogateway.org/events](http://www.usgbc-mogateway.org/events) or call (314) 577-0225**

## Keynote Address: The Nation's First Net-Zero Energy Elementary School (8:00 - 9:00 am)

*Speaker: Joanie Hendricks, Public Relations Coordinator, Warren County Public Schools*

Warren County Public Schools in Bowling Green, KY is home of the nation's first Net Zero school building. The district, which has grown by about 400 students annually, has built six new schools since 2006. Each building has served as an energy efficiency milestone as officials have honed designs to achieve a school building that operates without cost as a result of limited energy consumption coupled with revenue from solar panel production. The district designed the building to be a hands-on energy museum so students can continue learning about energy. The Net Zero School milestone is one of many accomplishments of Warren County Public Schools that has also offset \$6 million in energy costs since 2003 by changing behaviors and mindsets.

	<b>Concurrent Sessions 1 (9:15 – 10:15 am)</b>	<b>Concurrent Sessions 2 (10:30 – 11:30 am)</b>
<b>Built Environment</b>	<p><b>ENERGY STAR Advantage, Bayless High School, A Case Study</b>  <i>Maureen Clancy-May Ph.D, Superintendent, Bayless School District and Jeff Lowe P.E., Owner/Mechanical Engineer, Facilities Solution Group</i>                      The Bayless School District has earned the prestigious ENERGY STAR certification from the U.S. Environmental Protection Agency. ENERGY STAR certified facilities meet strict energy performance standards set by the EPA and uses less energy, are less expensive to operate, and cause fewer greenhouse gas emissions than similar buildings. Bayless has developed a modernization plan for the High School focusing on educational excellence and the learning environment. This session will present Bayless District as a case study in improving energy and financial performance and establishing community leadership.</p>	<p><b>St. Louis County School Districts Enterprise Sustainability Platform</b>  <i>Robert A. Tudisco, Talisen Technologies, Inc.</i>                      Saint Louis County was awarded a Special Communities Initiative grant by the Missouri Department of Natural Resources through the 2009 American Recovery and Reinvestment Act's Energize Missouri Communities. This grant was selected due to its strong focus on energy savings and economic benefits for our school districts within the County. The project is to conduct a measurement and verification project consists of auditing the selected facilities and installing an Enterprise Sustainability Platform for continuous retro-commissioning at three selected school districts: Brentwood, Hazelwood, and Parkway.</p>
<b>Student Initiatives</b>	<p><b>Wyland Knocks Out Waste!</b>  <i>Karen Worland, Gifted Educator and Jeanne Schober, Interventionist, Wyland Elementary, Riteneor School District</i>                      This is a service project developed by the 2008 gifted and talented 4th graders in an effort to educate students to take only what they will eat and eat what they take at lunch time. The group observed the problem of too much food being thrown away in the cafeteria and developed ways to solve the problem. Though a series of assemblies students brought attention to the waste and initiated an action plan to reduce waste in the cafeteria. After successfully reducing waste by 30%, the students decided they could further reduce food waste by implementing a compost program. Students made their presentation to district administration requesting help to create a composting program. With the support of the Ritenour School District, compost bins were built as an Eagle Scout Project in 2009. Wyland now has a school-wide composting program.</p>	<p><b>River Kids: Empowering Students to Make A Difference</b>  <i>Ben Griffiths, River Kids Coordinator, The New City School</i>                      River Kids Coordinator Ben Griffiths tells the story of how he and his 4th grade students created their very own river cleaning organization. Listen to Ben retell the lessons learned from his 7 years facilitating and developing River Kids into the thriving environmental education program it has become today. Learn how you can empower students in your school to pursue their dreams of a better tomorrow for all. Identify the steps taken to form a local youth organization dedicated to cleaning rivers; explore what a youth organization like this is capable of when given the right support; examine obstacles in starting a club/organization; and learn what administrators can do to support students and teachers in such an endeavor.</p>
<b>Sustainability Natives</b>	<p><b>Big Changes in a Small Area: Developing Sustainability</b>  <i>Betsy Guthrey, 3rd Grade Teacher, Edgar Road Elementary School; Leslie Memula, School Partnership Coordinator &amp; Eddie Jones, Program Manager, Litzinger Road Ecology Center</i>                      This session focuses on connecting curriculum standards to outdoor learning through the exploration of turning a small open space into a student-friendly sustainable environment that promotes healthy student interactions with the environment. Learn how to involve staff members and the community to build a solid foundation for developing a green space for students to interact with the environment.</p>	<p><b>Changing Urban Educational Outcomes by Changing Environments</b>  <i>Jami Sweeney, Head Of School; Kate Hagel &amp; Lana Azar, Parents/Committee Members, City Garden Montessori Charter School</i>                      A foundation of Montessori education is caring for our planet and respecting all life upon it. Creating a sustainable community with a small footprint is a natural extension of who we are. A healthy planet and healthy children go hand in hand. More and more studies are linking environmental causes to learning and behavioral problems. City Garden is attempting to limit these causes by creating a healthy environment that is optimal for learning and success. We look at the whole child and focus on all aspects of health and environmental well-being, from the food they eat, to the toxins in their environment.</p>
<b>School Culture</b>	<p><b>Explore Synergies Between Living Buildings and K-12 Education</b>  <i>Ralph Bicknese, Architect/Sustainable Design Consultant, Hellmuth + Bicknese Architects</i>                      This session will provide an overview of two educational facilities: St. Louis County and Hawaii, and how their exceptional sustainability features provide opportunities to enhance educational outcomes. Both buildings have achieved unprecedented levels of performance and are among the first buildings in the world certified to the stringent Living Building Challenge. Despite the distances and climatic differences they share similar objectives to be models for sustainable buildings. Both facilities were tailored to support sustainability and environmental science curriculum, are zero-net energy, zero-net water, zero-net waste, and eliminated the use of 16 "Red List Chemicals".</p>	<p><b>Beyond Recycling: Sustainability in Schools 2.0</b>  <i>Robert Dillon, Principal; Scott McClintock, Science Teacher; Bill Henske, Science Teacher, Maplewood Richmond Heights Middle School</i>                      This session will highlight the efforts of Maplewood Richmond Heights Middle School to dig deeper into sustainability. Moving from recycling and turning off lights to a green school culture requires infrastructure, staff passion, and a clear focus on stewardship as a central tenant of the school. Over the past five years, MRH Middle School has expanded its sustainability education in a number of areas that can be a model for other schools. This session will spark new ideas for schools to build partnerships of learning that support the overall capacity of the green schools movement.</p>

## Closing Plenary: Green Schools and State Government (11:45 am - 12:30 pm)

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