



## WUSTL Sets Record For Sustainability Facility Professional Credential

### 35 Employees Completed Credential Training



On July 21, twenty-six staff members from the Facilities Management Department at Washington University's School of Medicine were recognized for earning the title of Sustainability Facility Professional (SFP) from the International Facility Management Association (IFMA). Nine employees from the Danforth campus also completed the training, resulting in Washington University setting a world record for employing the largest number of SFPs!

The recognition event featured two speakers from IFMA, who said the University has set the standard for IFMA credentials.

Attainment of the SFP credential certifies the recipient has undertaken a prescribed course of study and successfully completed a series of comprehensive exams covering three focus areas: strategy and alignment for sustainable facility management, management of sustainable facilities, and operation of sustainable facilities.

The SFP certification supports the Facilities Management Department's aim of providing a range of services for the medical campus in a customer-focused, efficient, and sustainable manner.

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## WUSM Farmer's Market Ingredients Enhance Recipes



The above photo features locally grown vegetables, herbs, and eggs from a recent WUSM Farmer's Market Crop Box. Community members can join the Crop Box program or stop by the weekly market for ingredients to make a delicious and sustainable meal. The market takes place every Thursday, 10am to 2pm. April through early November, it is located on Hope Plaza. During inclement weather and from late November through March, it moves indoors to the McDonnell Pediatric Research atrium.

Beth Burka, Energy

## UPCOMING EVENTS

- Saturday, August 22: [Planting With Natives](#)
- Sunday, August 23: [Women's Clothing Swap](#)
- Friday, October 16: [Living Landscapes For Campuses](#)

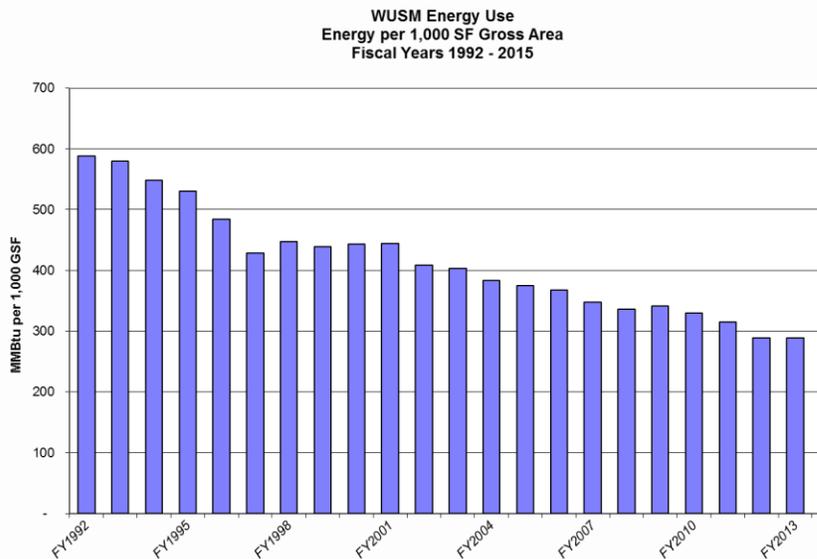
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## SCHOOL OF MEDICINE NEWS

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### Preliminary Look At FY15 Energy Statistics



Note: Includes satellite buildings and buildings on central systems. GSF does not include garages, however garage energy is included.

Washington University's School of Medicine (WUSM) continues to pursue opportunities to save energy and lower utility operating costs. By implementing projects and maintaining systems, WUSM lowers the energy usage of existing buildings. New construction is completed per standards with aggressive energy reduction and sustainability targets. The 4515 McKinley Building, which will be occupied soon, has been designed to achieve the U.S. Green Building Council's LEED Gold rating. The 4511 Forest Park building has been retrofitted with a chilled water system to replace lower efficiency roof top units that cooled and heated air to condition the space.

A preliminary review of FY15 energy data indicates that WUSM continues to trend toward a lower energy utilization index on a MMBtu per gross square foot basis. Adding the FY15 preliminary energy data to the historical

Engineer at WUSM, shared one of her favorite recipes using the market's ingredients:

Pasta with fresh tomato sauce - Mix 3 large tomatoes, 1 clove garlic, 1 small onion, 8 large basil leaves, 1 tablespoon chopped fresh oregano, 1 teaspoon chopped fresh rosemary with 1/2 cup olive oil; pour over cooked pasta.

Do you shop at the WUSM Farmer's Market? If so, we encourage you to submit your favorite ingredients and/or recipe for our next newsletter! Email

information to Jennifer Carter

at [jcarter@wustl.edu](mailto:jcarter@wustl.edu).

data shows FY15 coming in at under 300 MMBtu per 1,000 gross square foot, as evidenced in the graph above.

The reductions in energy usage per square foot over time have been achieved by improving central systems, improving HVAC systems and controls in existing buildings, and by constructing highly energy efficient new buildings. Kudos to all WUSM staff and our vendor partners who work hard every day to maintain quality operations, while lowering energy usage on a square foot basis. In addition to reducing the energy usage of these buildings, these changes result in lower utility operating costs for the University.

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### **Mail Services Merger Reduces Waste**



In June 2015, Washington University's Danforth and School of Medicine (WUSM) campuses and Barnes Jewish Hospital (BJH) merged mail operations. Many of their functions are now co-located at the new Environmental Health & Safety and Central Mail Services facility at WUSM (see above). All of WUSM mail and receiving functions that were previously located at the McDonnell Science Building, and all BJH mail services previously located at the TAB

building, are now co-located at the new facility.

In addition to providing financial savings, this effort has led to significant waste reduction. Instead of three separate building locations running equipment and using energy, mail operations share one location's equipment and energy. Additionally, mail operations staff have been able to consolidate Danforth and WUSM campus courier routes from four to three, which reduces vehicular emissions and energy use between the campuses.

BJH has agreed to deliver University mail to the BJH-West County and SCSS building in West County for several departments with their regular delivery to those locations, saving the use of several dispatch carrier service trips to those locations daily, and further reducing energy and emissions in the region.

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### **Carpooling A Positive Option For WUSM Commuters**



The Facilities Integrated Service Center (FISC) offers several alternative transportation options for those seeking to move away from single occupancy vehicle travel to campus. One of these options is carpooling.

Carpooling occurs when two or more community members travel together in one vehicle. Carpoolers are usually attracted by cost savings in gas, parking,

and wear on their vehicles. One carpooler elects to be the primary carpooler, but all members of the carpool are registered. Carpooling fees can be set up by payroll deduction through the primary carpooler. Carpooling arrangements are worked out by each individual carpool.

One of the lesser known benefits of campus carpooling is the Guaranteed Ride Home Program managed by [RideFinders](#). This program allows carpoolers to access rides through Laclede Cab to ensure they get home in case of an emergency.

For more information about carpooling, contact the FISC at 314-362-3100 or via email at [WUSMFacilities@wusm.wustl.edu](mailto:WUSMFacilities@wusm.wustl.edu).

Parkers are encouraged to research all commuting options to best meet their needs and support the University's commitment to sustainability.

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## September SAT Meeting To Feature Cycling Instructor



The quarterly Sustainability Action Team (SAT) meeting will be held on Tuesday, September 15, at 11:30am in the King Center in the Becker Medical Library.

This meeting will feature guest speaker Matthew Brown. Matthew is an instructor for Cycling Savvy. He will be presenting an abbreviated version of "The Truth and Techniques of Traffic Cycling," which is a portion of the Cycling Savvy course. He will cover the rules of movement and bicycling safety including perceptions, crash types, reducing risk, and high risk areas.

SAT meetings are open to the entire campus community. For more information, or to RSVP, please contact Jacquelyn Stearns at [stearnsj@wusm.wustl.edu](mailto:stearnsj@wusm.wustl.edu).

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## Facilities Assistant Director Invests In Solar



Brent Ray is the Assistant Director of Finance in the Plant Administration Department at the School of Medicine (Facilities). Approximately two years ago, he and his family decided to look into solar power for their home in St. Charles County. Brent says that he and his wife noticed an increasing number of panels being installed, and one day they drove by a home with panels and saw the homeowner outside. They stopped to talk, and from that point on, they knew they wanted to follow suit and do their part in reducing energy use.

Their 5.25 kW panel system was installed in January 2014. It has the ability to produce up to 7.4 kW. The Rays also replaced all of the halogen bulbs in their interior vaulted ceiling lights with LED lights to reduce energy use. Brent's wife works from home, and they have two sons, ages 12 and 15. Even with all of the activity at home, their spring electric meter spins backward on sunny days.

Brent enjoys real time monitoring since he can log in to the metering system from any location and see what it is producing or if one of the panels is not working properly. He expects that the system will pay for itself in 6-7 years. He will continue to change out interior CFL light bulbs for LEDs as they expire, as well.

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## LOCAL AND INTERNATIONAL NEWS

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**Climate Change At The Point Of No Return**



On July 20, James Hansen, the former NASA climatologist who brought climate change to the public's attention in the summer of 1988, issued an alarming statement. He and a team of climate scientists had identified a newly important feedback mechanism off the coast of Antarctica that suggests mean sea levels could rise 10 times faster than previously predicted: 10 feet by 2065. The authors reported a warning that if emissions aren't cut, "We conclude that multi-meter sea-level rise would become practically unavoidable. Social disruption and economic consequences of such large sea-level rise could be devastating. It is not difficult to imagine that conflicts arising from forced migrations and economic collapse might make the planet ungovernable, threatening the fabric of civilization."

Eric Rignot, a climate scientist at NASA and the University of California-Irvine and a co-author on Hansen's study, said their new research doesn't necessarily change the worst-case scenario on sea-level rise, it just makes it much more pressing to think about and discuss, especially among world leaders. In particular, says Rignot, the new research shows a two-degree Celsius rise in global temperature — the previously agreed upon "safe" level of climate change — "would be a catastrophe for sea-level rise."

Hansen's new study also shows how complicated and unpredictable climate change can be. Even as global ocean temperatures rise to their highest levels in recorded history, some parts of the ocean, near where ice is melting exceptionally fast, are actually cooling, slowing ocean circulation currents and sending weather patterns into a frenzy.

To read more about extreme changes happening to Earth's biosphere, including impacts on marine life and ecosystems, click [here](#).

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## UPCOMING EVENTS

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### **Planting With Natives**

Saturday, August 22, 10-11:30a

South Grand Pocket Park

3147 South Grand Blvd., St. Louis, MO 63118

Are you interested in lower maintenance landscaping? Building a healthy, more productive garden? Join the St. Louis Audubon society, Greenscape Gardens, and Gateway Greening to learn about planting with natives. Speakers will discuss what works well in St. Louis, finding plants for tough spots, and planting to attract beneficial insects and other wildlife.

For more information, contact Kathleen Carson at 314-558-9600, ext. 107, or at [kathleen@gatewaygreening.org](mailto:kathleen@gatewaygreening.org).

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## **Women's Clothing Swap**

Sunday, August 23, 1-3p

Perennial

15193 Olive Blvd., St. Louis, MO 63017

Join Perennial for its upcoming women's clothing swap. You can bring clothes you don't need and find new items you want! All proceeds benefit Perennial's educational programs.

What to Bring: Dresses, jackets, skirts, shirts, pants, shoes, jewelry, handbags, and accessories.

How to Swap: Bring gently used items that you no longer want. Place your items out with similar clothing, and shop department-style!

What to Look Forward To: You will find clothing and accessories to spice up your wardrobe and meet people in all shapes and sizes. Enjoy complimentary drinks while you shop!

Perennial is a community workshop and store that offers educational

programming in creative reuse to diverse populations and sells creatively repurposed home goods and eco-friendly project supplies. For more information, click [here](#).

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<b>Living</b>	<b>Landscapes</b>	<b>For</b>	<b>Campuses</b>
Friday,	October	16,	10a-2p
Missouri	Botanical	Garden,	Monsanto
4500 Shaw Blvd.,	St. Louis, MO 63110		Center

Living Landscapes For Campuses is a free workshop jointly convened by the St. Louis Higher Education Sustainability Consortium and BiodiverseCity St. Louis. It is designed for local university members striving to transform their campuses into thriving, ecologically functional, biodiverse places that increase quality of life for all. Teams of 2 to 6 individuals per campus/community are encouraged and may be comprised of any mix of the following: Sustainability staff, interdisciplinary faculty, grounds maintenance/horticulture crew, administration, student green team members, and local municipality representatives.

Participants will learn how to earn AASHE Stars credit OP 10: Landscape Management and will gain a deeper understanding of urban/suburban biodiversity from subject matter experts. Lunch is provided.

The registration deadline is October 1. To learn more and register, click [here](#). If you have questions, contact Kat Golden at [katherine.golden@mobot.org](mailto:katherine.golden@mobot.org).

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*The Office of Sustainability newsletter is intended as a clearinghouse of sustainability-related news and events at the university, in the region and around the world. Listings in the newsletter do not necessarily represent Office of Sustainability endorsements or views. To submit an event or news item to include in the newsletter, [email sustainability@wustl.edu](mailto:sustainability@wustl.edu).*

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