

YSUupdate

YOUNGSTOWN STATE UNIVERSITY

March 6, 2009

Campus electricity usage down 10%

Electricity usage on campus has dropped by nearly 10 percent in the last two years thanks to energy efficiency improvements across the university.

The university's facilities department reports that the campus consumed 40 million kilowatt hours of electricity in fiscal year 2008, down from nearly 44.1 million kilowatt hours in fiscal year 2006.

"That's a significant decrease," said

Ralph Morrone, YSU facilities engineer. "We have worked hard to make the campus more energy efficient, and it's obviously paying off."

Three years ago, YSU contracted with Johnson Controls Inc. to install more energy-efficient lighting in every one of the university's more than 40 buildings. JCI, a global leader in facilities management and

control, implemented other energy improvements as well, including upgrades to

the university's steam heating and cooling systems.

The result is the 4.1 million kilowatt hour drop in electricity usage. That's equal to the amount of electricity it would take to operate nearly 2,500 60-inch LCD TVs around the clock for a full year, Morrone said.

At 7.54 cents per kilowatt hour, the 4.1 million kilowatt hour decrease amounts to a savings of a little more than \$300,000 a year, he said.

In reality, however, the savings is even greater. Morrone projects that the university's electricity consumption would have been nearly 50 million kilowatt hours in fiscal year 2008 if not for the energy

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The campus' electrical usage, by kilowatt hour:

2005	43.2 million
2006	44.1 million
2007	41.1 million
2008	40.0 million

Feds direct \$1.6M for new metrology center

U.S. Rep. Tim Ryan announced last month a \$1.6 million federal direct appropriation to establish a National Defense Center of Excellence in Industrial Metrology and 3D Imaging headquartered at YSU.

The center, funded by the U.S. Department of Defense Army Research Lab, will focus on developing and improving advanced manufacturing technologies for military and commercial uses that could have widespread economic impact across the Northeast Ohio region and throughout the nation.

"The work and research that will be done here at YSU as a result of this funding will be among the most advanced in the country," Ryan said at a YSU news conference on Feb. 20.

The Center is the fruit of an ongoing partnership of YSU, M*7 Technologies in Youngstown, the Youngstown Business Incubator, Zethus Software LLC in Youngstown, the Ohio Supercomputer Center's Blue Collar Computing Program in Columbus, and the National Institute of Standards and Technology in Gaithersburg, Md., and is an

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U.S. Rep. Tim Ryan, right, presents a \$1.6 million check to YSU President David C. Sweet, center, and Martin Abraham, dean of the YSU College of Science, Technology, Engineering and Mathematics, to establish the National Defense Center of Excellence in Industrial Metrology and 3D Imaging.

eUpdate exclusives

For more news about YSU, read these and other stories in eUpdate at <http://cfweb.cc.ysu.edu/marketcomm/index.cfm>.

- **The YSU Office of Housing and Residence Life won the "Outstanding Project Award" at the regional Great Lakes Association of College and University Housing Officers conference in Cincinnati.**
- **The College of Science, Technology, Engineering and Mathematics celebrates Engineers Week by holding its First Annual STEM Awards Dinner in the DeBartolo Stadium Club, featuring U.S. Rep. Tim Ryan as the keynote speaker.**
- **YSU is again participating in RecycleMania, a nationwide contest that pits colleges and universities to see which can reduce, reuse and recycle the most campus waste.**
- **Three graduate students in the counseling program placed second in the American Counseling Association Student Ethics Competition.**
- **Eight American Humanics students from YSU participated in the American Humanics Management/ Leadership Institute in Indianapolis.**
- **Seventy YSU students have been inducted into the Golden Key International Honor Society.**

Tod photo exhibit features Elm Street Gates Project

In the Rose Marie Smith Gallery adjacent to President David C. Sweet's office in Tod Hall, a new photography exhibit by university photographer Bruce Palmer chronicles the latest work of sculptor and YSU associate professor of art Greg Moring.

Moring's newest venture, the "Elm Street Gates Project," consists of large, symbolically sculpted gates constructed of a fitting Youngstown material — steel.

Due to the success of his last gates project that now rests at the entrance of the sculpture courtyard on the east side of Bliss Hall, Moring decided to draw up a plan for a new set of gates — this time at the entrance to the university.

When completed, the 25-foot wide, 16-foot tall gates, featuring a smaller set of functional, built-in gates, will create a formal entrance to the university as visitors drive north towards campus on Elm Street. Resting parallel to Lincoln Avenue and situated at the branch in the sidewalk, Moring said the gates will aesthetically bring downtown Youngstown and the YSU campus together.

Moring describes the sculpture-in-

progress as a linear collage that depicts Youngstown's industrial legacy with a continuous ribbon of steel encapsulated in a book shape, surrounded by students participating in the learning process.

"The two panels on the left represent the hard work, commitment and sacrifice of Youngstown's past generations that laid the enduring foundation needed for the renewal and transformation of a greater Youngstown through the power of education," said Moring. Additionally, the large gate's right hand side symbolizes the promising future that education can provide to students.

Photographs along the walls of the Rose Marie Smith Gallery show Moring working in numerous early stages of gate construction. Since last summer, Moring has been piecing the gates together at his Trumbull County home studio. He estimates the gates will be finished by summer 2010, and he is seeking funding for the project.

"My hope for the Elm Street Gates is that the artwork will become a responsive and positive contribution to the urban fabric and the larger effort of revitalizing our community," he said. ■



These are among the photographs chronicling Greg Moring's Elm Street Gates Project. The photos by university photographer Bruce Palmer are on display on the second floor of Tod Hall.

Youngstown STATE UNIVERSITY

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Faculty & Staff

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Sylvia J. Imler and **Sally A. Lewis**, assistant professors, Counseling and Special Education, presented "Collaboration Between P-16 Schools to Achieve Academic and Behavior Supports: One Year Later" at the 7th Annual Hawaii International Conference in Education, Hilton Hawaiian Village, Honolulu, in January. The presentation came from the 1st Annual Northeast Ohio OISM Consortium which was funded by a grant entitled "Reducing the Achievement Gap in Ohio: Implementing OISM to Prepare Graduates of Youngstown State University to Meet the Needs of All Students," Phase II of which Imler is the principal investigator.

Alice D. Guerra, professor, Health Professions, served as a member of the board of directors for the Mahoning Valley Hospital and was a member of its executive committee since 2004. Guerra received the Dr. John Politis Outstanding Service Award in December 2008 from the Mahoning Valley Hospital.

L. Diane Barnes, associate professor, History, has written a book, *Artisan Workers in the Upper South: Petersburg, Virginia, 1820-1865* (Louisiana State University Press, 2008), that has been nominated for the 12th Annual Library of Virginia Literary Award in the non-fiction category. The awards are for the best book about Virginia or by a Virginia author.

Steven Brown, professor, English served on the National Screening Committee for the 2009-10 Student Fulbright Program.

Bradley Shellito, associate professor, Geography, co-authored an essay entitled "Celebrate with SATELLITES – An International Polar Year Partnership to Study Earth's Materials," which was published in the January 2009 edition of *The Science Teacher*. Shellito's co-authors were Mikell Hedley, Kevin Czajkowski, Janet Struble, Terri Benko, Scott Sheridan and Mandy Munro-Stasiuk.

Zbigniew Piotrowski, professor, Mathematics and Statistics, was chosen to serve on the Board of External Examiners at M. Sundaranar University, Tirunelveli, India.

Frank X. Li, assistant professor, Electrical and Computer Engineering, presented "Joint Position Sense Monitoring Using Wireless Sensor Nodes," at the 2009 IEEE Radio and Wireless Symposium in San Diego in January. The co-authors for this article are **Kenneth Learman** and **Weiqing Ge**, assistant professors in the Department of Physical Therapy. This research was funded through a University Research Council grant award in 2008.

Brian K. Brennan, Librarian 2-Technical Services, Maag Library, had an article entitled "Being Through Doing" published in the December edition of *The Won-Buddhist Magazine*. ■

Safer campus is workshop goal

More than 260 YSU faculty, staff and administrators have completed a mental health training workshop designed to enhance campus safety, and organizers would like to double that number over the next year.

Mental Health Training, Response and Awareness on Campus, or M-TRAC, is co-sponsored by YSU and the Mahoning County Mental Health Board, and funded with a grant from the Margaret Clark Morgan Foundation.

The first workshop was held in October 2008, followed by a second session in February. The training is offered in two, four-hour sections over two days. Organizers are planning additional sessions in October of this year and in spring 2010.

Mahoning County Mental Health Board members became concerned about YSU campus safety in 2007 after the shootings on the campus of Virginia Tech University, said Toni Notaro, administrative director of the board and an adjunct faculty member

in YSU's Department of Counseling and Special Education. A report on the Virginia Tech incident revealed that many saw evidence the perpetrator was troubled, she said, but they didn't know what to do with the information.

Notaro said the board partnered with Cynthia Anderson, YSU vice president of student affairs, to create M-TRAC, among the first of its kind in Ohio. "Our goal is to engage every department on campus and to invite them to be part of the solution," she said. "The rest of the state is watching to see how it goes."

The workshops include information on mental illness and suicide on college campuses, in addition to training in conflict resolution and communication skills and information on campus resources available to help with problematic situations.

For more information, or to register for the October training sessions, contact Donna Greenaway, 330-941-3533, or djgreenaway@ysu.edu. ■



Toni Notaro, administrative director of the Mahoning County Mental Health Board.

Electricity

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improvements. That would mean that electricity consumption actually dropped by nearly 10 million kilowatt hours, or about \$700,000 in cost avoidance, he said.

YSU spent nearly \$5.8 million on utilities in fiscal year 2008. Without the new energy improvements, the university estimates its costs would have been nearly \$6.5 million, thus the \$700,000 in cost avoidance, Morrone said. The university projects similar savings this year.

“The bottom line cost to the university for electricity, steam and other utilities continues to rise,” Morrone said. “But by implementing these improvements, those costs will not be as high as they could have been. We are avoiding hundreds of thousands of dollars worth of costs that we otherwise would have had to pay.”

He said the university is now looking at additional ways to reduce utility costs, including more closely regulating heating/air conditioning in buildings and possibly restricting the use of space heaters.

He also noted that the new Williamson College of Business Administration building is being constructed to new state-of-the-art lighting and other utility efficiency standards. ■

Metrology center

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outgrowth of the Advanced Manufacturing Initiative jointly sponsored by YSU, YBI and Ryan’s office.

“This project represents the synthesis of academics and industry, joining forces

to help transform the Mahoning Valley,” YSU President David C. Sweet said. “It is upon these kinds of partnerships, with the leadership of Congressman Ryan, that the region’s economic future rests.”

Metrology is the science of measurement, traditionally performed using tools such as tape measures and calipers. But more advanced instruments, such as three-dimensional imaging, allows for much faster, more complete measuring of complex shapes for industrial applications.

“This technology will allow firms that have traditionally made the things on which society relies to transition to 21st century manufacturing, retaining jobs in the Mahoning Valley and creating new opportunities in new clusters such as alternative energy,” said Martin Abraham,

dean of the College of Science, Technology, Engineering and Mathematics.

The new center, led by Chemistry Professor Allen Hunter and a team from the STEM College, is designed to carry out research, development and commercialization activities in these advanced technologies.

“The goal is to leverage the resources of a deeply integrated partnership that includes YSU’s STEM College, regional companies, and external research and development organizations, so that intellectual property is not just created but,

more importantly, is translated into new commercial products and services, thus creating new high-paying jobs in the Mahoning Valley and across Ohio,” Hunter said.

Over the past five years, Ryan’s efforts to support the creation of a technology corridor with Youngstown at its center has helped secure more than \$10 million in federal appropriations for YSU, including funding for the YSU Center for Transportation and Materials Engineering and the YSU CyberEnabled Industrial Innovation Center. ■

“This project represents the synthesis of academics and industry...”

— David C. Sweet —



Crunch time!

Kawane Woodbridge, a student at Choffin Career Center in Youngstown, breaks a sweat as he applies weights to his bridge at the second annual Mahoning Valley Miniature Bridge Building Competition in the Chestnut Room of Kilcawley Center on Feb. 20. The event, hosted by the YSU Department of Civil and Environmental Engineering, attracted 14 teams from eight local high schools, with Lowellville winning the first and second prizes. Canfield won a prize for bridge aesthetics.