

Mizzou Advantage
MU researchers talk about collaboration between the veterinary college and the medical school
Page 3

Shared governance
Faculty want say in MU budget talks
Page 4

Dec. 6, 2012
University of Missouri
mizzouweekly.missouri.edu

The next issue of will be Jan. 24, 2013

Happy Holidays!

Biomass boiler likely to reduce coal burning by more than 25 percent

MU POWER PLANT

New boiler expected to be at full capacity by early February

After roughly four years of analysis and design, two years of construction and road closures, 150 contracted employees and \$75 million of equipment and labor, Gregg Coffin will be relieved when MU's new biomass boiler is operating at full capacity.

"In the course of a project, you're always excited when you get close to the end," said Coffin, the Power Plant superintendent. "It's a relief to start seeing [contractors] leave and things get finished so we can work our way back to normal."

He's almost there.

In late November, the inside lining of the new 85-foot-tall boiler finished curing, allowing the plant to burn biomass. The boiler burns natural gas during the start-up phase, but Coffin hoped to be running solely on biomass sometime this month.

It's an incremental process to bring the boiler to full capacity — workers add fuel, adjust the oxygen levels to calibrate the burn, add a little more fuel, recalibrate and so on. The ramping-up process will likely continue into February. At that point they'll test to make sure they're meeting the capacity, emissions and efficiency standards promised by the boiler manufacturer.

The work is the final phase of a project started in 2007 when the university contemplated how to replace one of the power plant's old and increasingly unreliable coal-fired boilers. A design team researched new boiler options and found that biomass was the best choice from both an ownership cost and emissions standpoint.

The \$75 million boiler is being financed primarily through bonds repaid from power plant revenue (the plant charges campus units for steam and electricity usage).

With the new boiler, Coffin expects to reduce coal usage by more than 25 percent. The biomass boiler will use sustainably-sourced biomass, which will reduce the power plant's emissions and shrink the university's carbon footprint. He contends that the project is the biggest sustainable energy undertaking on any major American university campus.

Overall, the power plant can produce up to 66 megawatts of electricity and 1.1 million pounds of steam an hour — enough to power and heat more than 13 million square feet of campus buildings.

Each year, the boiler will use about 100,000 tons of biomass, delivered in a dozen or more semitrailer loads a day and stored in three large covered silos.

At first, the biomass will be wood waste from mills, managed forestry and clearing for development. MU signed a six-year

agreement with Foster Brothers Wood Products of Auxvasse, Mo., to supply biomass to the plant.

But the boiler is flexible. It uses a "fluidized bed" — a layer of heated sand that bubbles like boiling water — that is able to ignite a host of fuels with a range of moisture contents. So if prices change to where other fuel sources — switchgrass, corn stover or other agricultural residues — become cheaper, the boiler fuel can follow the market.

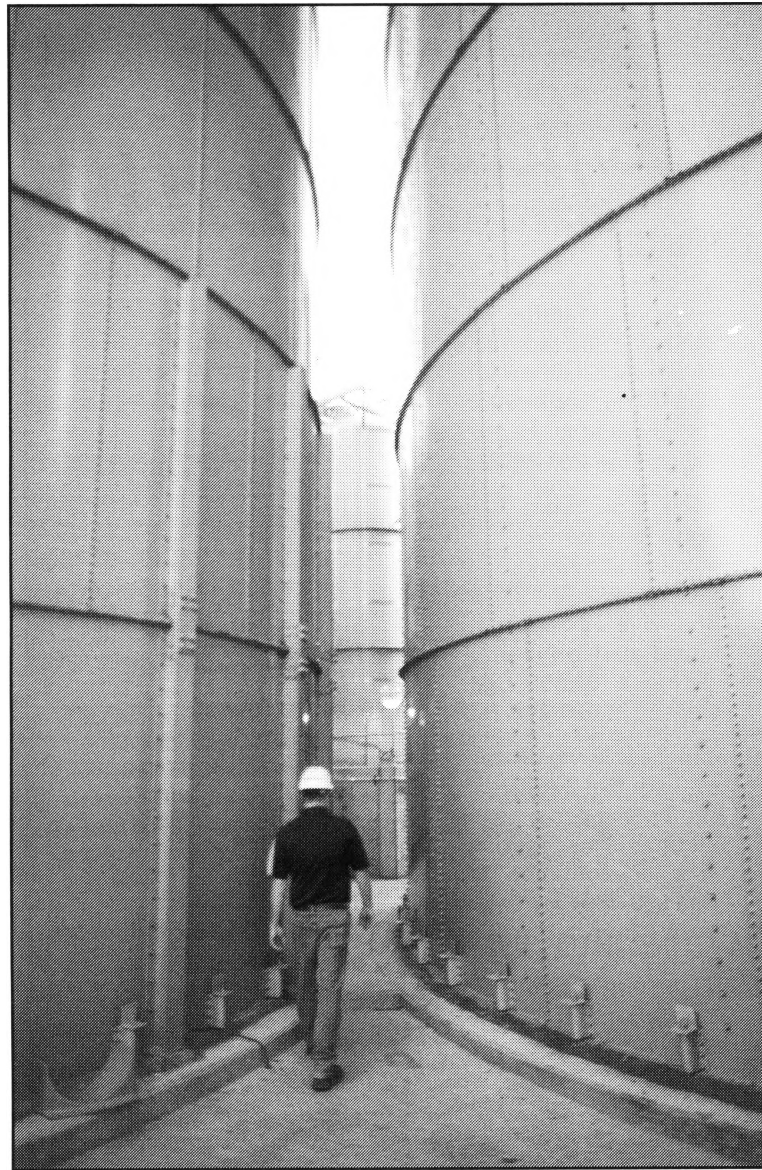
Cerry Klein, LaPierre Professor of Engineering, and Mizzou Advantage's Sustainable Energy facilitator, said the new boiler will be a boon for campus research.

"I think it's a tremendous asset," Klein said. "Our plant scientists ... will be able to do test burns in this boiler and see exactly what particulates come out based on different plants and how they genetically modify them, and also what burns better and what gives us a better return on BTU for our money."

"That is an advantage to us, because in most places you can't do that," he said.

Coffin hopes researchers and students can develop a deep bench of back-up fuel sources that he can call on to get the best price. "It does make a good opportunity to partner with our academic community ... to help them and them help us develop new sources of biofuel that can be

SEE BOILER on Page 3



Rob Hill photo

POWERING UP Gregg Coffin, Power Plant superintendent, expects the biomass boiler to be at full capacity sometime in February. The plant powers and heats more than 13 million square feet of campus buildings.

Students gain retail ownership experience in program

YOUNG ENTREPRENEURS

Program kicked off in 2010 with opening of the Student Center

Noelty Boutique is easy to miss in the bustling Student Center. The glass box seamlessly blends in with the other businesses.

But it's an interesting world to enter. All the items, such as cell phone covers, mittens and rhinestone-engrained jewelry, have been imported from China and have an Eastern decorative flare.

The retail store is the

third business to occupy the space next to US Bank.

Through the Unions Entrepreneurial Program, students apply to open a business in the Student Center space. Five applications were received to occupy the space through the fall and spring semesters. The chosen application came from juniors Tank Zhu, an accounting major, Yang Han, a finance major, and Hanjie Xiao, an economics major.

The idea for the program came about during the initial planning stages of the Student

Center, years before the center underwent construction. "We thought, Wouldn't it be great if we had an area for students to have an entrepreneurial space?" said Michelle Froese, public relations and marketing manager in Student and Auxiliary Services. "It would give them an opportunity to develop their business."

The Student Center was expected to have plenty of foot traffic that would foster a new business, Froese said. She was right. More than 17,000 students visit the center daily

when classes are in session. Potential customers abound.

The program began with the Student Center opening in 2010. Previous tenants include Internet companies MizzMenus.com and Listener Approved, and a clothing store. Student owners pay no rent or utility bills on the space.

Because of the tremendous responsibility involved, the Unions Entrepreneurial Program created a rigorous application process. Applicants must submit at least 12 pages of material that includes items such as a business plan,

financial summary and exit plan. After being chosen, students must fund, stock and market their store.

Zhu and his partners are supported through a donation from US Bank and their parents, all of whom have business backgrounds in China, where the students are from.

"My parents always said a business isn't easy to run," Zhu said. "You have to put your heart into it. And actually, we've realized it's hard. You have to think a lot about how to run it."

SEE STORE on Page 3

Mizzou Online accolades

During fall semester, two Mizzou Online instructors and an online master's program were honored from higher education organizations.

- Shawna Strickland, clinical associate professor of respiratory therapy in the School of Health Professions, received the award for Excellence in Teaching from the University Professional and Continuing Education Association (UPCEA) Central Region.
- The School of Information Science & Learning

Technologies was recognized by the UPCEA Central Region for its educational technology master's program. The school was awarded the Outstanding Mature Program Award, given for online programming that has made sustained contributions to higher education in the form of impactful change in its associated industry.

- Matthew Gordon, associate professor of English, was honored by the Association for Distance Education and Independent Learning (ADEIL) with the Helen Williams Award for Outstanding Courses.

Gordon's "English 4610: History of the English Language" is an online, self-paced course. It features video, animated slide decks, engaging commentary and detailed instructor feedback.

Advisors Forum winner

Shannon Breske, director of undergraduate advising for the Trulaske College of Business, has won the Advisors Forum Advising Shout Out award.

The award, first presented in December 2010, is given twice a semester. It recognizes undergraduate advisers for their impact on students' lives and careers. Winners receive a gift card.

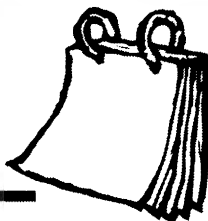
University Hospital honored

In October, University Hospital received national recognition from the American Heart Association and the American Stroke Association for the quality of care it provides to stroke patients.

The 2012 Stroke Gold Plus Performance Achievement Award recognizes the highest distinction possible from Get With the Guidelines, a national hospital quality improvement program. University Hospital has now won the award two years in a row.

classifieds

calendar



FOR SALE

4 bedroom, 3.5 bath home in Woodrail Subdiv. MLS 342058. Fully remodeled. Mill Creek/Gentry/RBHS. \$2,500/mo, negotiation OK. Lease to purchase OK. Call Lauren 268-8825.

9+ acres, 4 bedroom remodeled home, 40x40 outbuilding, no restrictions, Boonville schools, paved road, private setting. \$194,900. Call Lindsay at 660-888-7595.

Five piece Ludwig drum set with five Zildjian cymbals and stands, plus additional accessories, excellent condition, \$495. Call 999-4804 for details.

WRITING INTENSIVE

Send in your Missouri fishing story and it might be used in a WI-class next semester and might get published. Contact Mark Morgan at markmorgan@missouri.edu or 882-9525

For a limited time, classified ads are FREE for MU faculty, staff and retirees, and \$9 for the general public, for up to a 30-word line ad.

• Home phone number or e-mail address required.

* Deadline: Noon Thursdays.

* No refund for cancelled ads.

To submit an ad, call 884-1278 or email mizzouweekly@missouri.edu

Concerts & Plays

Courses & Workshops

Thursday, Dec. 6

UNIVERSITY CONCERT

SERIES: Iconic R&B group Boys II Men will perform at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

Friday, Dec. 7

ODYSSEY CHAMBER MUSIC

SERIES: "Holiday Bells & Drums" at 7 p.m., First Baptist Church at 1112 E. Broadway. For ticket information, call 442-1149.

Sunday, Dec. 9

MU SCHOOL OF MUSIC:

Community Music Program recital at 12:30 p.m. Missouri String Project concert at 2:30 p.m. Both performances are in Whitmore Recital Hall.

COLUMBIA CIVIC

ORCHESTRA: "Christmas with the Columbia Chorale" will begin at 7 p.m. at the Missouri United Methodist Church.

Monday, Dec. 10

UNIVERSITY CONCERT

SERIES: The Nebraska Theatre Caravan will perform the holiday classic "A Christmas Carol" at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

Wednesday, Dec. 12

UNIVERSITY CONCERT

SERIES: Experience the Christmas music of Mannheim Steamroller by Chip Davis at 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

Thursday, Dec. 6

COMPUTER TRAINING:

- "PowerPoint: Presentations that Wow" will be offered at 8:30 a.m. in N3 Memorial Union.
- "Photoshop CS5: Colors & Image Size" will be offered at 1 p.m. in 4D11 East Ellis Library.
- "Excel 2010: Formatting & Printing" will be offered at 1 p.m. in N3 Memorial Union.

Registration is required online at training.missouri.edu or call 882-5000.

Friday, Dec. 7

COMPUTER TRAINING:

- "ITSM Remedy Hands-on Training" will be offered at 8:30 a.m. in N3 Memorial Union.

Registration is required online at training.missouri.edu or call 882-5000.

Tuesday, Dec. 11

COMPUTER TRAINING:

- "Photoshop CS5: Retouching" will be offered at 8:30 a.m. in N3 Memorial Union.
- "HTML5 & CSS: Tables, Layout & Typography" will be offered at 8:30 a.m. in 4D11 East Ellis Library.
- "ITSM Remedy Hands-on Training" will be offered at 1 p.m. in N3 Memorial Union.

Registration is required online at training.missouri.edu or call 882-5000.

Wednesday, Dec. 12

COMPUTER TRAINING:

- "Dreamweaver CS5 2: Intro to CSS" will be offered at 8:30 a.m. in N3 Memorial Union.
- "Excel 2010 for Starters" will be offered at 8:30 a.m. in 4D11 East Ellis Library.

- "Access 2010: Advanced Forms, Reports & Queries" will be offered at 1 p.m. in 4D11 East Ellis Library.
- "InDesign CS5 2: Modifying & Finalizing Documents" will be offered at 1 p.m. in N3 Memorial Union.

Registration is required online at training.missouri.edu or call 882-5000.

Thursday, Dec. 13

COMPUTER TRAINING:

- "Access 2010: Fields & Tables" will be offered at 8:30 a.m. in N3 Memorial Union.
- "ITSM Remedy Hands-on Training" will be offered at 8:30 a.m. in 4D11 East Ellis Library.
- "Intro to HTML5 & CSS" will be offered at 1 p.m. in 4D11 East Ellis Library.
- "Excel 2010: Worksheets & 3-D Formulas" will be offered at 1 p.m. in N3 Memorial Union.

Registration is required online at training.missouri.edu or call 882-5000.

Exhibits

BINGHAM GALLERY:

"High-Five: The Art of Artist Teachers" will be on display through Dec. 14, with a reception 5-7 p.m. Dec. 14.

The gallery, located in the Fine Arts Building, is open 8 a.m.-5 p.m. weekdays.

MUSEUM OF

ANTHROPOLOGY: "Behind the Mask: Power, Performance, and Art," an exhibit of masks from around the world will be on display through January 2013.

The museum, located at 100 Swallow Hall, is open 9 a.m.-4 p.m. weekdays.

MUSEUM OF ART AND ARCHAEOLOGY:

- "Rolando Estevez and the Genius of Vigia" will be on display Nov. 3 through March 2013.
 - "End of Days: Real and Imagined Mayan Worlds" will be on display Nov. 17 through March 2013.
- The museum, located in Pickard

Hall, is open 9 a.m.-4 p.m. Tuesday-Friday, 9 a.m.-8 p.m. Thursday, and noon-4 p.m. Saturday and Sunday.

Lectures & Seminars

Thursday, Dec. 6

MUSEUM OF ART & ARCHAEOLOGY:

Alex Barker, museum director, presents "End of Days: Real and Imagined Mayan Worlds" at 5:30 p.m. in 106 Pickard Hall.

Tuesday, Dec. 11

MU DIGITAL HUMANITIES

COLLOQUIA: Twyla Gibson, assistant professor of information science and learning technology, will present "The Greek Key: New Technologies for the Study of Ancient Literature" at 12:30 p.m. in 159 Ellis Library.

Films

Friday, Dec. 7

MUSEUM OF ART & ARCHAEOLOGY:

Will be showing *Passage to India* (1984) at 7 p.m. in 106 Pickard Hall. The event is free and open to the public.

Special Events

Saturday, Dec. 8

STATE HISTORICAL SOCIETY:

Frank Stack will host "Frank Stack at 75 Walk-Though By the Artist," an exhibition of his career in art, at 1:30 p.m. in the main gallery.

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- Photographers** Nicholas Benner, Rachel Coward, Rob Hill
- Writer** Ashley Carman

Records Management Training

Part 1: Records Management Compliance
Part 2: Managing Shared Drives & Alternatives to e-mail and attachments

Wednesday Dec. 12, 10-11:30 a.m.
2910 Lemone Ind. Blvd. Room S23

Register: blairjo@umsystem.edu or 882-6362

ET@MO's elearning brown bag series presents:

**Clickers in the Classroom:
A Faculty Panel**

Friday, December 7 from 12-1 p.m. in S207
Memorial Union

STORE from Page 1

No student wants to confess that mom and dad were right, but Zhu admits it proudly. His parents taught him how to conduct business, how to treat others and what it means to be a business owner.

However, his parents couldn't teach him everything. Zhu and his partners have learned how to utilize social media to promote products, which products should be advertised and how the United States tax system works for their imported goods.

"It's about learning how to run a business," said Lory Arnold, the student development coordinator. "Learning you have to work at it in order to succeed, and products just don't sell themselves. Learning to write an exit plan. Learning

what works and what doesn't."

An example is Chinese woodcarvings. The Novelty Boutique owners expected them to sell. They flopped. From that experience, they learned to monitor what sells and keep those products in stock.

Zhu is becoming more comfortable in the role of business owner. He'll keep learning and hopes to open an American business following graduation.

— Ashley Carman

I'M THE BOSS Tank Zhu, an accounting junior, and two other MU juniors are learning how to be business owners in the Unions Entrepreneurial Program. Zhu hopes to start his own business after graduation.

Rachel Coward photo



MU veterinary college research helps advance human health

MIZZOU ADVANTAGE

Joint-replacement patients tell their stories

About 60 people gathered Nov. 28 in the Reynolds Alumni Center to hear two MU professors discuss research in total joint replacement. Sponsoring the event was Mizzou Advantage's One Health/One Medicine, an initiative that strives to bring together research in

human and animal health.

The event showcased how veterinary medicine research advances human health care.

MU is one of only three Southeastern Conference universities to have both a medical school and veterinary college.

"We are looking from one species to another and seeing if advances in one [area of medicine] can lead to [advances in] another," said Carolyn Henry, facilitator

of One Health/One Medicine.

James Cook, professor of small animal and orthopedic surgery, talked about his research using cadaver cartilage, rather than metals or plastics, to replace cartilage in dog joints.

"Life is movement, and movement is life, whether you're a two-legger or four-legger," Cook said at the event.

James P. Stannard, chair of the Department of Orthopaedics,

talked about how Cook's work has contributed to joint treatment for humans.

Two patients of the Missouri Orthopaedic Institute spoke of their joint replacements.

Loren Figueroa, a sociology sophomore and member of the MU dive team, received treatment one year ago after injuring her knee during a dive. Months after cartilage surgery, she was diving again and hopes to be part

of the 2016 Olympic trials.

Tory Flaherty, an MU School of Health Professions graduate, injured her knee while running. Two years after surgery at the institute, Flaherty was running more than 3 miles a day.

"That this [research and surgery] is in our own backyard is so amazing," Flaherty said at the event.

— Ashley Carman

BOILER from Page 1

used in the plant," Coffin said.

Shibu Jose, H.E. Garrett Professor of Agroforestry, researches how biomass production can be done sustainably and economically.

"There are all sorts of questions surrounding the logistics of producing the biomass and getting that biomass to the end user — or in this case the power plant," Jose said, listing questions about how the biomass is produced, harvested, stored, transported and processed. "These are all topics we can research to make sure it's the most cost-effective way of procuring the biomass for the bio boiler — and perhaps an economically viable opportunity

for the landowners involved."

Coffin hopes that operating a biomass boiler will help stoke the biomass fuel market and create local jobs. The power plant's coal and natural gas come from out of state — Illinois, Texas and Oklahoma — but Foster Brothers is a Missouri company creating Missouri jobs.

Coffin imagines area companies such as furniture makers and home builders expanding their businesses by selling wood waste to biomass suppliers.

"I think that's good for Missouri," he said.

— Erik Potter

MU Grape and Wine Symposium is Friday

MAKING WINE

The second annual Grape and Wine Symposium will be held in the Bond Life Sciences Center's Monsanto Auditorium 12-4:30 p.m. Friday.

The event is free and open to the public.

Featured are presentations by faculty in MU's College of Agriculture, Food and Natural Resources, and faculty at colleges and schools from other Missouri universities.

Several sessions will focus on

disease and disease resistance in various grapevines.

"Anyone who is interested in what researchers are doing and what will drive the grape and wine industry forward will find a nugget in the symposium that they will appreciate," said Ingolf Gruen, interim director of MU's Institute for Continental Climate Viticulture and Enology.

For registration and a more detailed agenda, visit iccv.missouri.edu.

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Federally insured by NCUA. Additional coverage up to \$250,000 provided by Excess Share Insurance Corporation, a licensed insurance company.

Advertise in all 15 issues of Mizzou Weekly this spring and receive a free web ad for the entire semester. Offer ends 1/14/13.

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New director in Office of Research wants to fine-tune grant writing process

GRANT WRITER NETWORK

Winning grants calls for teamwork, leader says

Although she holds the title of director of grant writing and publications, Heather Brown sees herself more as an educator than a grant writer.

“I think the strongest skills I bring are in teaching and working with adults,” said Brown, who joined the Office of Research Aug. 1. To that end, she wants the 16 members of MU’s Grant Writer Network to both learn about and train others in the best methods for writing grants and to be open to alternative, adult-friendly methods for teaching others.

Grant writers work in the research office and in various campus schools and colleges. Since its inception in 1998, the network has helped Mizzou faculty secure more than \$300 million in awards.

“The grant writers are incredibly talented; I can’t emphasize that enough,” Brown said. “With the demands

on faculty, they can make a difference” in getting proposals written for funding university innovation and research.

Prior to joining MU, Brown served as assistant dean of faculty for grants and scholarships at Lake Forest College, north of Chicago.

“It was a one-person shop, and I was responsible for faculty and student development, support in pursuing external opportunities, program planning and grant writing,” she said.

What does it take to get grant applications to the top of the pile? The best grant writers are at once curious, creative and analytical,” Brown said. “They ask good questions. Sometimes they are experts in the field when working with faculty members, sometimes they are not.”

In many cases, grant writers play the role of educated lay reader and critic to provide a different perspective on research. “This is important because researchers can get caught up in their own areas and not see the broader picture,” Brown said. “Having a grant writer

who is smart and creative, and who understands the process of seeking and getting funding, can coalesce that process in a heartbeat.”

Equally important in winning grants is teamwork.

“Coming from a liberal arts background, I know firsthand that if you don’t work together, you are not getting anywhere,” Brown said.

— Sue Richardson

LEADERSHIP Heather Brown, director in the Office of Research, says the best grant writers are curious, creative and analytical. In many cases they play the role of educated lay reader and critic, Brown said.
Rob Hill photo



Tim Rooney Retirement Reception

You are cordially invited to join colleagues and friends of Tim Rooney
—Director of Budget—
to honor his 36 years of dedicated service to the University of Missouri.

Wednesday, December 12, 2012
3:30-5:30 p.m.
Remarks at 4:30 p.m.
Reynolds Alumni Center

Faculty Council discusses level of faculty input in MU budgetary allocations

MEMBERS WANT TO DEFINE TERMS BEFORE NEXT STEP

Faculty Council on Nov. 29 discussed in Memorial Union a motion to change faculty bylaws from advisory authority to shared authority regarding campus budget issues.

Sudarshan Loyalka, Curators Professor of Nuclear Engineering, said faculty deserve involvement in budgetary and resource allocation. He said faculty at the three other campuses of the University of Missouri System share fiscal decisions with administration. MU faculty need to do likewise.

“We as a faculty do not have organized input” on MU’s fiscal budget, said Loyalka, chair of the council’s fiscal affairs committee.

Following Loyalka’s presentation for shared authority, council members tried to clarify the issues.

Currently, faculty have an advisory role on the MU budget, which, according to Faculty Council Chair Harry Tyrer, means faculty are advised, but do not help develop, the budget. “If we are going to effect change at the university, we have got to get into the budget talks,” Tyrer said.

But the discussion quickly turned to defining “advisory” and “shared.”

Tyrer said shared authority meant faculty have a “dialogue and give administration input, but administration still makes the decisions.”

Several council members disagreed. Douglas Wakefield — director of the Center for Health Care Quality Medicine, and professor in the Department of Health Management and Informatics — said shared authority should mean that “we get to vote” on MU budget allocations.

Nicole Monnier, associate teaching professor of German and Russian studies, added, “‘Shared’ means two people have votes at a table.”

But Loyalka contended that shared does not give faculty “final authority, but we do have voice.”

Faculty Council will continue its discussion of shared budgetary authority at its next meeting Jan. 24. If approved by the council, the resolution will be voted on by faculty. The Board of Curators would need to give it final approval.

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