BRINGING LIFE SCIENCE TO LIFE

The 205,000-square-foot Doug Meijer Medical Innovation Building in downtown Grand Rapids will house public-private partnerships aimed at bringing new life science discoveries to market. Current confirmed tenants include the MSU College of Human Medicine, BAMF Health and Spectrum Health. It is expected to be completed in late 2021. ILLUSTRATION/COURTESY OF ROCKFORD CONSTRUCTION

PARTNERS BREAK GROUND AT MEDICAL INNOVATION SITE

GERI KELLEY //HEALTH & MEDICINE

Health Innovation Partners — a real estate development joint venture between Rock- ford Construction, Walsh Construction/Walsh Inves- tors, Murphy Development Group and Michigan State University — broke ground recently on the next phase of the university’s Grand Rapids Innovation Park, the Doug Meijer Medical Innovation Building, on the northeast corner of Michigan Street and Monroe Avenue. The 205,000-square-foot building has received strong national interest since the initial project announce- ment in 2018. The university and developers have been working with potential tenants eager to help bring the unique concept to life. Current confirmed tenants include the MSU College of Human Medicine, BAMF Health and Spectrum Health. The building is anticipated to open in late 2021. Smith-Group is the lead architect for the project. “This project is another demonstration of what can be achieved in West Michigan when we work together to benefit the community,” said Mike Van- Gessel, founder and CEO of Rockford Construction. “The expansion of this important facility will further strengthen- en the region and serve as a magnet for world-class scientific research.”

MSU, CATA EXTEND DEAL ON FREE BUS SERVICE

MELODY KINDRKA //CAMPUS LIFE

MSU and CATA have signed a new service agreement to make on-campus bus service free to all students, staff and faculty for years to come. The fare-free service began last year as a pilot. Campus ridership increased by approximately 40%, while overall pedestrian and vehicle traffic decreased during the same period. “Last year’s trial of providing free bus service to routes on campus proved very successful and extremely popular,” said MSU President Samuel L. Stanley Jr., M.D. “Providing safe, convenient and effi- cient transportation options for students, faculty and staff is a top priority for MSU’s mobility plan- ning. CATA provides a reliable bus system throughout the year, in any weather.” Under the new three-year service agreement, fare-free rides will continue for week- day service, including routes 30, 31, 32, 33 and 39, and weekend service on routes 34, 35 and 36. Additionally, CATA will provide bus ser- vice during summer, spring and winter breaks on Route 32, which serves Ramp 1, the MSU Auditorium, the Clinical Center and Lot 89. “We are elated by our new service agreement with CATA,” said Stanley.

SURVEY DATA WILL DRIVE ACTION ON RVSM ISSUES

Report outlines incidence, impact of programming

CHRIS CHAPMAN //TITLE IX & CIVIL RIGHTS

New data released recently provides valuable insights about MSU’s climate, the incidence of relationship violence and sexual misconduct and the impact of recent im- provements made across campus on these critical issues. The Know More @ MSU campuswide survey was launched in March and led by the Relationship Violence and Sexual Mis- conduct Expert Advisory Workgroup. “We needed a comprehen- sive assess- ment of the climate at MSU for stu- dents, faculty and staff” said Rebecca Campbell, pro- fessor of psychology and adviser to the president on RVSM issues. “MSU has never done a truly campuswide survey on relationship violence and sexual misconduct, and we needed to hear from our community about their experiences, concerns and ideas for changing the culture at MSU.” The survey invited all undergraduate, graduate and professional stu- dents, faculty and staff to participate in a web-based survey. The data was collected and then ana- lyzed by RTI International, an independ- ent, nonprof- it research organization that contract- ed with MSU. The results will be used in MSU’s ongoing effort to foster a safe and inclusive campus. “Understanding the problems that our campus members face and creat- ing solutions to making our environment safe are important as we work to change our culture around these issues,” said MSU President Samuel L. Stan- ley Jr., M.D. “This new base

HOLIDAY TIME REPORTING REMINDERS

HR offers helpful reminders for supervisors who may need to approve time for benefits-eligible support staff for the holidays. go.msu.edu/bnh

BOARD OF TRUSTEES MEETS DEC. 13

The MSU Board of Trustees will hold a regularly scheduled meeting on Dec. 13 starting at 8 a.m. go.msu.edu/RKP

Some bus stops on the campus will soon include new solar-powered lights thanks to a grant from the Sustainable Spartans stu- dent group.

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OIE NAMES NEW DIRECTOR

The Doug Meijer Medical Innovation Building in downtown Grand Rapids is the second of three buildings planned for the corner of Michigan Street and Monroe Avenue that are greatly expanding medical teaching, research and device development in the city’s downtown area.

>> NEWS BRIEFS

CENTER FOR GLOBAL CHANGE FACULTY LAND GRANTS FROM NASA PROGRAM

Faculty from MSU’s Center for Global Change and Earth Observations recently secured funding from NASA for four projects studying the relationship between socioeconomic and land-use changes. The recognition marks a milestone of long-term strategic planning and growth for the center, part of the College of Social Science. The four awards illustrate the interdisciplinary nature of the research supported by the center and NASA. Blending natural and social sciences, both programs take a multidimensional approach to better understand how human-land use systems from a regional to a global scale. The four projects each focus on land-use transitions in Asia, Australia, Mexico and environmental change to land degradation and agriculture.

VET MED ANNOUNCES 2019 WINNER OF ZOEIS AWARD FOR RESEARCH Excellence

Adam Mooser has been selected by the College of Veterinary Medicine as the recipient of the 2019 Zoetis Award for Research Excellence. The award is a nationally recognized honor for a faculty member at each veterinary school in the U.S. The award recognizes researchers whose innovative studies have advanced the scientific standing of veterinary medicine. Mooser is the Matilda R. Wilson professor for the Department of Large Animal Clinical Sciences and director of the Gastrointestinal Stress Biology Laboratory.

SENIOR CYCLOTRON PHYSICIST NAMED 2019 AMERICAN PHYSICAL SOCIETY FELLOW

Daniel Bazin, a senior physicist at MSU’s National Superconducting Cyclotron Laboratory, has been elected as a 2019 Fellow of the American Physical Society. APS fellows are selected for their outstanding contributions to physics. Each year, the number of APS fellows elected is no more than one half of one percent of the membership. Bazin was elected by APS for “ground-breaking work developing nuclear reaction mechanisms for the study of nuclear reactions and for the conception and application of innovative technology to enable novel experiments.”

NEW SOFTWARE GIVES EMPLOYEES A MORE SEAMLESS BUSINESS TRAVEL EXPERIENCE

Concur, the world’s leading travel and expense management tool that allows travelers to book travel, create requests (pre-trip authorizations) and expense reports in one solution. To have the best travel experience, the Travel@State team highly encourages all faculty and staff to complete their Concur profiles. To access your profile, log in at ebs.msu.edu. To receive all the benefits that Concur offers, employees should verify their NehID email address in their profile.

Students that supports their health, the in-person training in a supervisor or coworker harassment, both male and female. In addition, faculty and staff of all genders experienced some form of workplace incivility through- out their careers at MSU. The report showed that traditionally marginalized community members were more likely to respond that they had experienced some form of sexual or relationship violence. These marginalized populations include women, people with disabilities, bisexual people and transgender people. “MSU has a significant number of community members who are experiencing relationship violence and sexual misconduct, and these experiences are upsetting and interfere with their school, work and relationships,” said Amy Moylan, assistant professor of social work and RVSM Workgroup member who led this survey effort. “We need to create a culture that supports their health, well-being and recovery.”

Key Findings

Climate

Across the dimensions of climate explored in the study, undergraduate men and faculty men reported the least positive perceptions of climate, as well as graduate/profes- sional students and faculty women who had the most negative perceptions of climate. Awareness of MSU-specific resources and programs related to relationship violence and sexual misconduct was fairly high, and the majority of undergraduate, graduate and professional students, faculty and staff indicated that they had received training on a number of specific topics (e.g., the legal definitions of sexual assault, obtaining consent). Survey partic- icipants perceived online training as less helpful than the in-person training in which they participated.

Students

Sexual harassment was the most prevalent type of victimization students expe- rienced. Nearly two-thirds of undergraduate women, half of women graduate/professional students, 42.2% of undergraduate men and 32.4% of men graduate/professional students expe- rience sexual harassment in the 2018-19 academic year. About 13% of undergraduate women, 3.5% of undergrad- uate men, 3.7% of women graduate/professional stu- dents and 1.5% of men grad- uate professional students experienced sexual assault in the 2018-19 academic year. Employees

The majority of faculty and staff (of all genders) experienced at least some work- place incivility. The most reported form of workplace incivility that a supervisor or coworker paid little attention to their statement or went about their business was fairly little in their opinions, interrupted or “spoke over” them or doubted their judg- ment on a matter for which they were responsible. The prevalence of re-ported workplace harassment was 18.7% for women faculty, 9.5% for men faculty, 11.6% for women staff and 15.1% for men staff.
CATA announced that free service on campus for faculty, staff and students will continue indefinitely. PHOTO/COURTESY Members of the MSU community are seen above at the main CATA bus station on campus. CATA and MSU recently has served as its primary to a $25,000 grant from visible to CATA's operators. public-transportation ser- the Ford Motor Company The new agreement amends MSU," said CATA CEO Brad- CATA routes on MSU's cam-Some bus stops on campus ley T. Funkhouser. "Given pus, visit the morning ceremony and graduates from the colleges one of South Africa's top All attendees will be ing group of inspirational no bags or purses will be included bottled water Schroth, Chief Program and Letters, Broad Business, Education, James Madison, Music, Social Science/EOSP, the Residential College in Arts and Humanities. Susan Packard, an MSU alumna and co-founder of HGTV and Scripps Networks Interactive, will speak at the afternoon ceremony and will receive an honorary doctorate of humanities. She was also the 2019 MSU homeowner's grand mar- shal. Packard will address graduates as well as colleges of Agriculture and Natural Resources, Communication Arts and Sciences, Engi- neering, Lyman Briggs, Nat- ural Science and Nursing. The advanced degree ceremo- nary will take place at 3:30 p.m. on Dec. 15. Vice-Chan- cellor Tawana Kage from the University of Preto, one of South Africa's top research universities, will speak and accept an honor- ary doctorate of humanities.

Harold Mooney, ecologist and professor in the Depart- ment of Biology at Stanford University, also will receive an honorary doctorate of science at the advanced degree ceremony. World-renowned expert on inland fisheries Robin World-Renome will also receive an honorary doctorate of science but won't be in attendance at the ceremony. "This is my first graduation with the MSU community and we have an outstanding- group of inspirational students to share our global vision with our grad- uates," said MSU President Samuel L. Stanley Jr., M.D. "I'm honored to be a part of the celebration and rec- ognition of the hard work so many Spartans have put into their education." Commencement cere- monies will be live-streamed and can be watched via MSU's commencement website at go.msu.edu/LKP. Twitter users are invited to use MSUgrad19 to follow along. For the safety of attendees, no bags or purses will be permitted in the Breslin Center for any commence- ment ceremonies. Cameras and camcorders are permit- ted, but cases are prohib- ited. No food or beverages — including bottled water — will be allowed, and this includes water bottles and snacks. Breslin Center will offer a limited concessions menu during the ceremonies. Additional prohibited items include non-smokers, soft drinks, pets, signs and weapons of any form. Breslin Center is a smoke-free environment. All attendees will be searched with a metal detector, so please plan accordingly for processing.

GRADUATES TO HEAR FROM PACKARD, MEIJER

MSU CHEMISTS LANDS CAREER AWARD

Professor using grant to unlock new ways to identify proteins

ON THE WEB

For more information on CATA routes on MSU’s cam, visit go.msu.edu/qKp.

visible to CATA’s operators.

The new agreement amends the current contract between CATA and MSU, which factors in expenses, federal and state support, and rider usage. The fare-free service will be funded through the university’s general fund.

and quantity of proteins in cells under different conditions," said Sun, assistant professor in the Department of Biologi- ogy in the MSU College of Natural Science. "But the technology is not perfect because it requires a large quantity of cells — and cellular material is often limited. Sun: "In cancer cells, where understanding cellular heterogeneity within a tumor is critical and often requires ana- lysis on cells by one by one. The current proteomic technology is not sensitive enough to examine the proteome-level heteroge- neity of single cells within a tumor. Sun estimates the first three years of the award will be used to develop and to evaluate the MS- based technology. The new technique will provide at least 100 times great- er sensitivity for protein identification. The highly

sensitive MS-based analyt- ical method will advance fundamental research involving mass-limited pro- teins, especially in many areas of biology, such as develop- mental biology, cancer biology and neurobiology. Sun will then use the remaining two years to ad- vance his research on em- by zebrafish embryos during early embryogenesis, specifically the maternal-to-zygotic transition. Sun will build the first and largest quantita- tive proteomic database of chromatin-associated pro- teins in vertebrate embryos. Finally, the project will provide a great opportunity to train the next generation of graduate students for multidisciplinary scientific research. "We want students to de- velop a better understand- ing of these techniques through the lab module," Sun said.

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EVENTS
ANALUMNA NAMED RHODES SCHOLAR

Anna Esenther, a 2019 MSU graduate, has been named a Rhodes Scholar.

Esenther is from Ashland, Massachusetts. She is currently a first-grade teacher at Inca Elementary in Buckeye, Arizona. The Rhodes Trust, the oldest of the major international competitive award foundations, provides 100 of the most outstanding students across the world an opportunity to study at the University of Oxford in England. Rhodes Scholars are offered in 22 countries, with the United States receiving 32 of the 100 scholarships.

Richard Lenski, with graduate student Nkrumah Grant, has worked with more than 30 doctoral students and postdoc researchers who have gone on to faculty positions throughout the world. "By exercising our frame-work of the '4 Cs' — camaraderie, community, culture and responsibility — students and undergraduate students, all of whom are carrying out research to understand the process of evolution."

MSU, which houses the nation's largest solar carport, has been named one of the nation's most environmentally responsible colleges, according to The Princeton Review.