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May 4-10, 2022

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See Page **5**

VOYAGE TO INNER SPACE

Inside MSU's Facility for Rare Isotope Beams

By Lawrence Cosentino

ABOOD

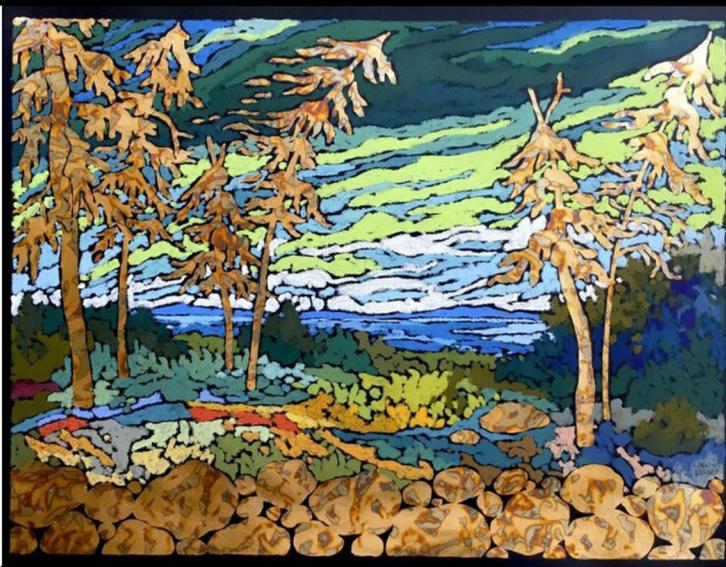
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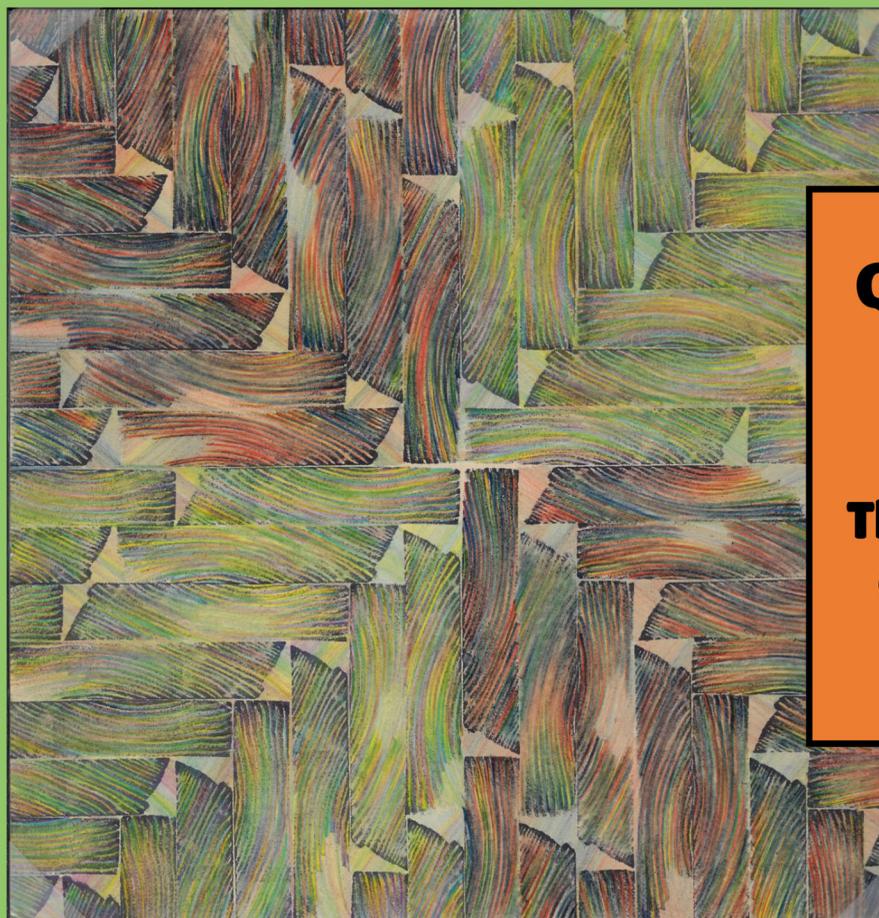
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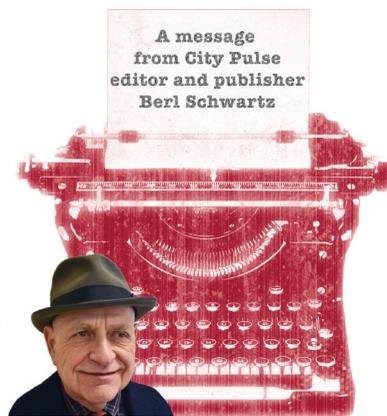
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Back in 2001, when a handful of us launched City Pulse, we pledged that we would produce a newspaper that would cover the local scene with high editorial standards. Today, our pledge remains the same.

Some 21 years later, our mission is more important than ever. As the daily newspaper sadly declines (our print circulation is now larger), we are trying harder than ever to keep our audience informed about what is happening in our community, from news and arts coverage to our premier events listings. Our content is almost entirely local. Our ownership is entirely local, too, not a hedge fund in another state.

The cost of doing so is dramatically more expensive than it was even last year. It is not just the 8-9% rate of inflation that is affecting all of us. The cost of paper — our second biggest expense — has shot up 25% in the last 15 months.

Help us keep City Pulse not just strong but improving. **Please contribute to City Pulse.** We hope you will set up a recurring donation, but whatever you can do will be sincerely appreciated.

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PAGE 15

Still digging that old time radio



PAGE 16

Bradly's HG keeps growing in Old Town



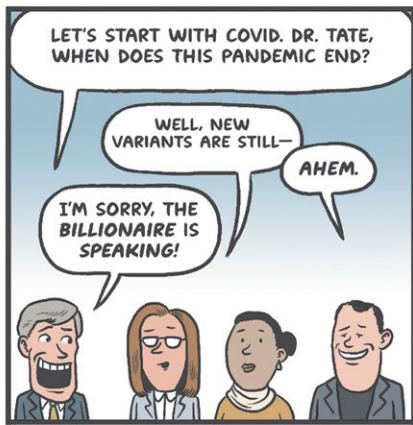
PAGE 18

Cannabis company builds giant greenhouses



Cover Art

Cover photo by Lawrence Cosentino



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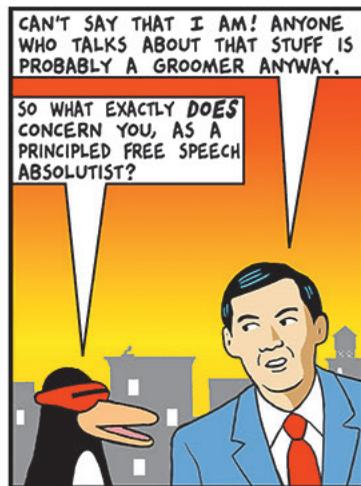
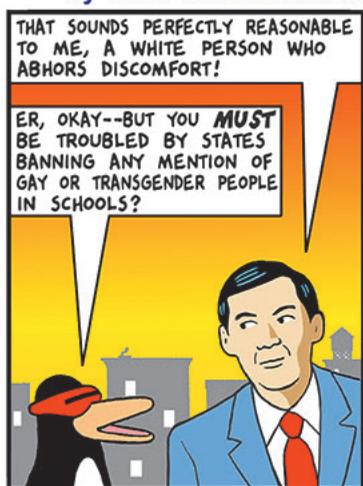
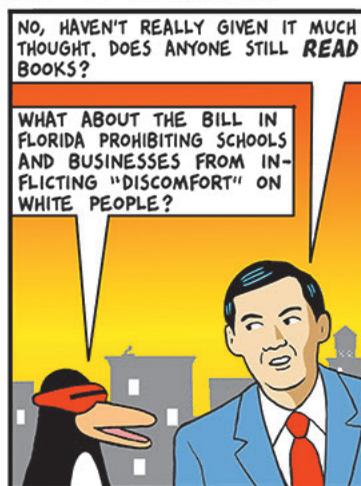
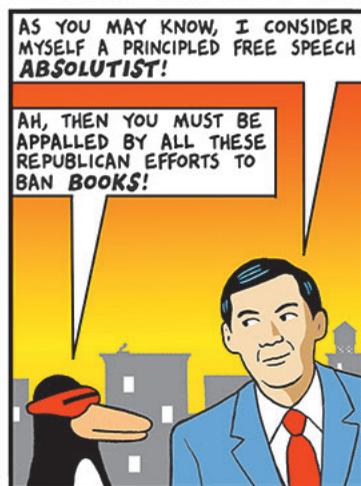
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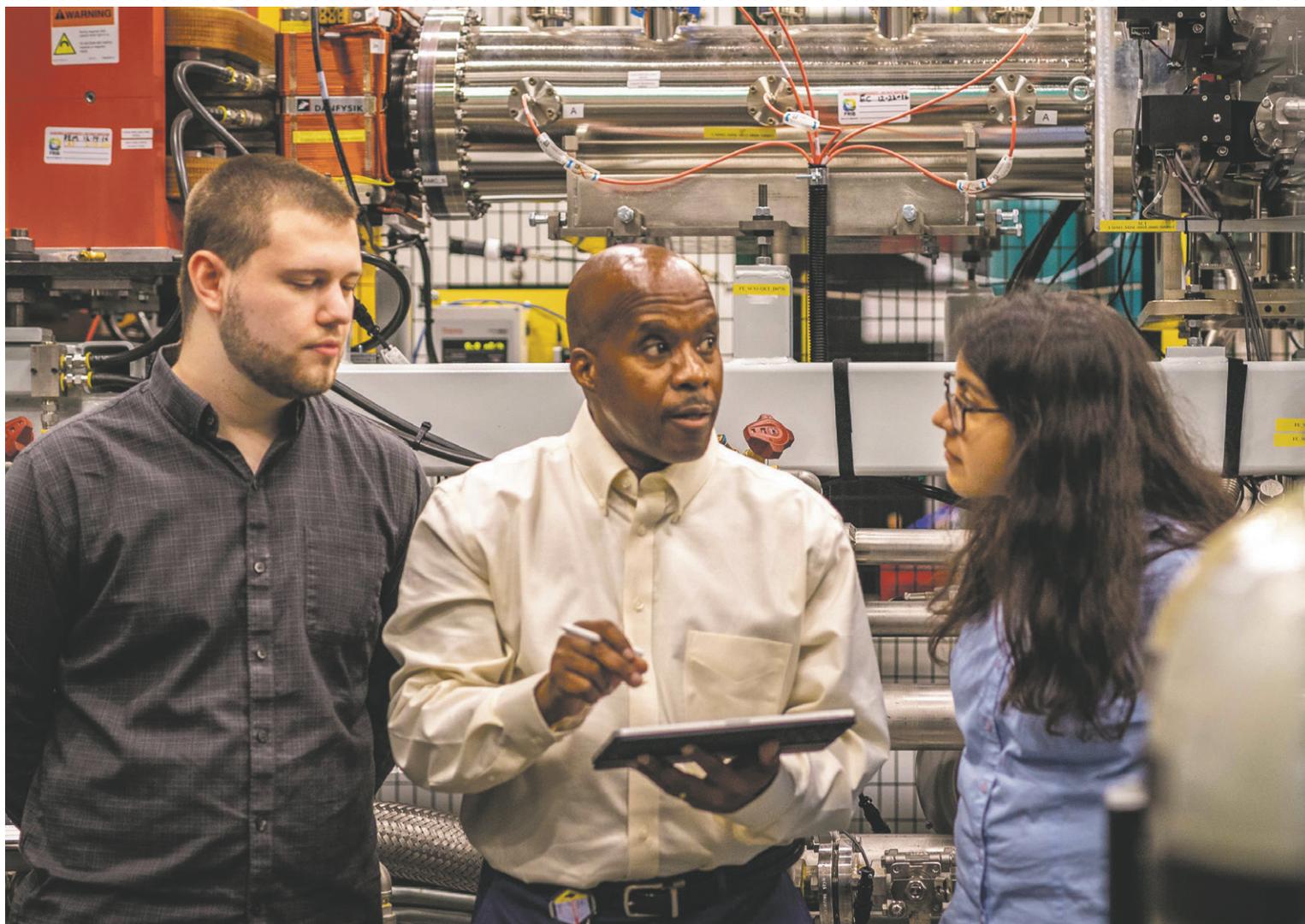
by TOM TOMORROW



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PULSE

NEWS & OPINION



Courtesy MSU

“A new machine like this is like a new baby,” MSU physics Professor Paul Guèye (center, with two students) said. “They don’t come with a manual.”

Beam us up

MSU’s Facility for Rare Isotope Beams gets to the heart of the matter

By **LAWRENCE COSENTINO**

On April 23, 2022, the first sunny Saturday afternoon in months, about 1,000 people ducked into a windowless labyrinth of concrete, cables and electronics, housed in a dim, zeppelin-sized bunker on the south campus of Michigan State University. They listened patiently as scientists shouted themselves hoarse, through pandemic masks and over the roar of machinery, about radio frequencies, dipole magnets and other arcane subjects.

They turned their back on the sun itself to learn about MSU’s \$774 million Facility for Rare Isotope Beams, and with good reason. This place can do things even the sun can’t.

FRIB (most of the scientists say “eff-rib”), which officially opened for research Monday (May 2), will enable researchers to plumb the fundamental forces that hold matter together, trace the origin of the heavier chemical elements in distant cosmic conflagrations, push the frontiers of medical diagnostics

and treatment and almost surely make unforeseen, even shocking, discoveries.

At the April 23 “FRIB Countdown” open house, MSU researcher Jaideep Singh pointed to a chaotic-looking jumble of wires, bolts and boxes and happily shouted the same thing to group after group.

Singh told visitors that he and his team expect to get as few as 10 atoms per day of the rare isotope they want — a patient fisherman’s pace, but a remarkable number, considering the isotope’s loca-

tion at the very edge of nuclear existence.

“Every time our detectors give a little blip, it’s going to be super exciting and we’ll be doing a little dance,” he beamed. “It’s going to be brand new science that’s never happened before, and it’s going to happen within hours of turning on the beam around May 10.”

Singh and his team are fishing for unicorns.

He told visitors that one of the first isotopes produced will be so exotic it

See FRIB, Page 6

FRIB

from page 5

isn't even listed on the "main isotopes of sodium" Wikipedia page and will survive for only a few thousandths of a second before decaying away.

When it comes to cranking out lighter elements like hydrogen and helium, our own Sun is a Viking. Heavier elements — not so much. Many of the rare isotopes produced at FRIB can only be found in exploding stars, somewhere out in the universe. And, if all goes as planned next week, on the blooming campus of MSU. And that's just the beginning.

Despite the hundred-ton magnets, super-cooled liquid helium baths and banks of sophisticated radio controls, much of FRIB feels more like the base-ment of a power plant than the deck of a starship.

That's because FRIB is a workplace, not a movie set.

Although it's housed on a university campus, FRIB is a user facility for the U.S. Department of Energy's Science Office, funded primarily by the federal government.

The real grandeur of FRIB lies in its mission: to discover, explore and understand all forms of nuclear matter.

"We're trying to understand how stars work, and how they create the elements," MSU Physics Professor Artemis Spyrou explained.

Now it feels like a starship.

The range of potential spinoffs from basic research at FRIB could have impact on anything that's made of atoms

—from zapping cancerous tumors to developing micro-batteries — but this is not an applied science project.

"We need to lead with the basic science," FRIB's laboratory director, Thomas Glasmacher, asserted. "The Office of Science is supposed to do basic research that doesn't compete with industry. Spinoffs are a good thing if they happen, and we want to have fertile ground to allow them to happen, but we can't lead with the spinoffs."

An international panel of top scientists sifts through hundreds of requests for "beam time" at FRIB.

For the time being, about 75% to 80% of FRIB's user community is from the United States, but Glasmacher said that's mainly because of uncertainties over travel planning in the past two years.

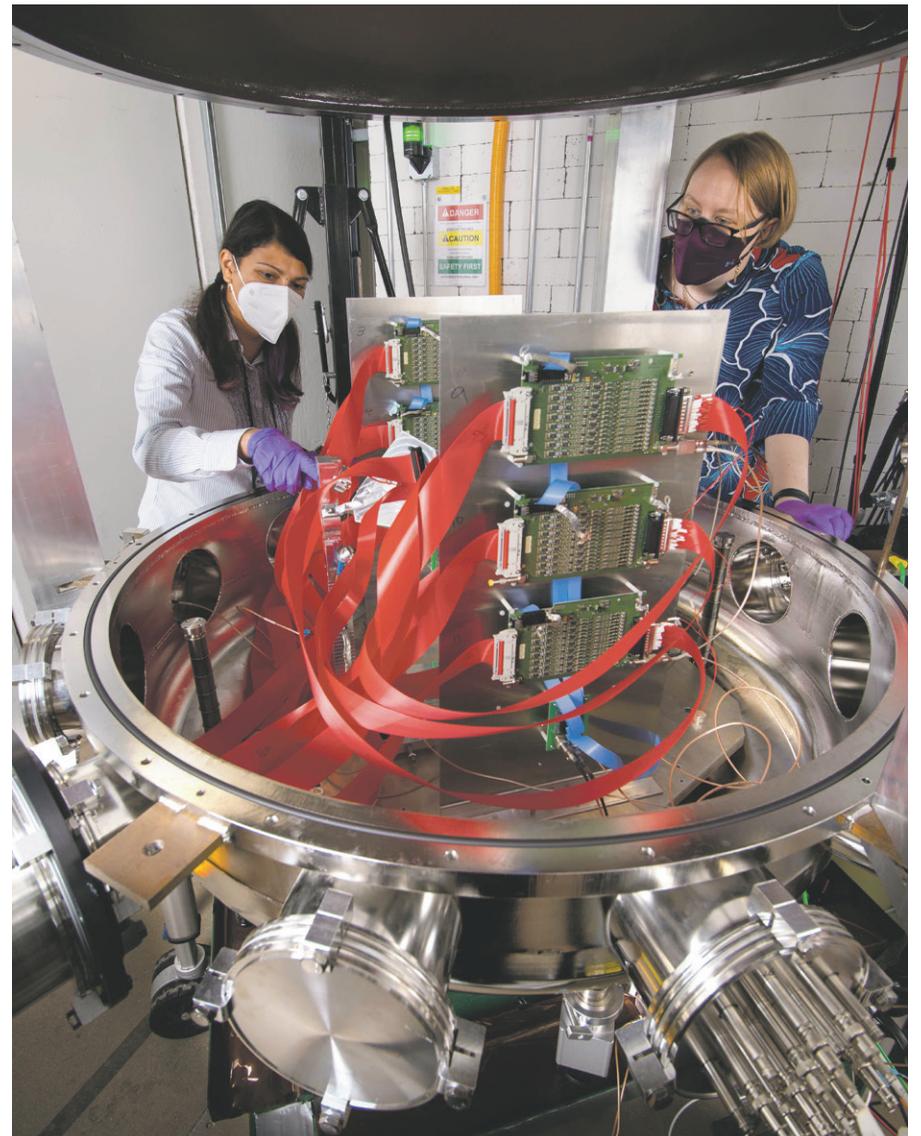
While curious onlookers filed through the halls of FRIB April 23, researchers from the Berkeley Center for Theoretical Physics, Oak Ridge National Laboratory, Louisiana State University, the University of Tennessee, the University of Mississippi and other institutions across the nation were already in East Lansing, setting up FRIB experiments.

"The demand from the world science community is extremely high," FRIB science director Brad Sherrill said.

Wings of existence

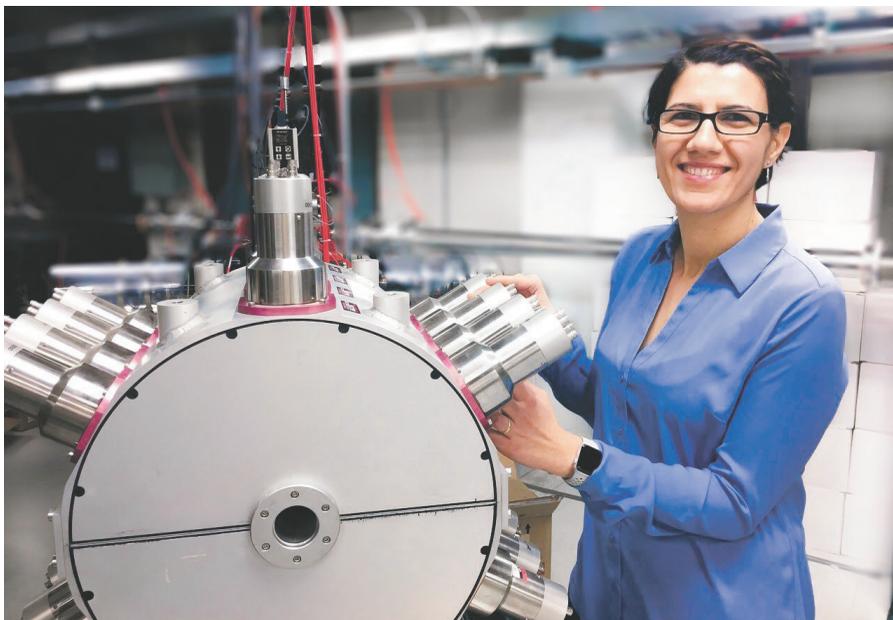
In a sneak preview of the kind of discoveries that will be made at FRIB, researchers at NSCL discovered a new isotope of magnesium, the eighth-most abundant element in the Earth's crust, in January this year.

The recipe for Earth's abundant sup-



Courtesy MSU

Kaitlin Cook (right), a physics assistant professor, shown here with researcher Iulia Harca in the FRIB Laboratory, studies interactions of atomic nuclei — "how the Earth got to look as it is."



Courtesy MSU

"We're trying to understand how stars work, and how they create the elements," said physics Professor Artemis Spyrou, shown here working on a gamma ray detector used to measure nuclear reactions.

ply of magnesium is pretty simple: add three helium nuclei to a carbon nucleus. Any large, aging star will reach the needed temperature, but only when it blows up into a supernova.

The isotope found at MSU was the lightest form of magnesium yet seen: magnesium-18, with 12 protons in the nucleus — which is what makes it magnesium — but only six neutrons instead of the 12 found in the stable form familiar on Earth.

That's the atomic equivalent of a teeter-totter with six kids on one end and 12 on another. Such unstable isotopes aren't "keen on existing," according to a cheeky MSU post announcing the discovery. To be exact, magnesium-18 lasts about a sextillionth of a second before it has a combination nervous breakdown and identity crisis. It frantically runs the Periodic Table, ejecting two protons from its nucleus to become neon-16, then ejecting two more protons to be-

come oxygen-14. (Change the number of neutrons in an atom and you get an isotope of the same element; change the number of protons and you get a different element altogether.)

"We try and understand processes that occur on the time scale of a zepto-second," MSU researcher Kaitlin Cook said. "That's a thousandth billionth billionth of a second. Even for a physicist, that's insane."

The fleeting glimpse at magnesium-18 goes into the growing bank of information on isotopes "at the very limits of existence," in the words of Kyle Brown, an assistant professor of chemistry at the FRIB.

"We're adding drops to a bucket, but they're important drops," Brown said. "We can put our names on this one, the whole team can. And I can tell my parents that I helped discover this nucleus that nobody else has seen before."

See FRIB, Page 8



Lane's Appliance Sales and Service was established in Lansing over 42 years ago, offering appliance sales in Frandor, and Appliance Repair service throughout the greater Lansing area.

Lane's was started in 1980 by its founder Lane Baehre. Lane's is currently owned and operated by the families second generation, Jeremy Davis. In the beginning the business simply went by the name Lane's Repair. The company quickly grew through word of mouth and referrals thanks to honest quality workmanship at a fair price. Lane always had a way of treating customers like family and was able to earn the respect of his clients which then turned into long term relationships. Jeremy emphasis "These core values are still engraved into the culture of the business today."

Through the years several things have changed and evolved, as should be expected, but the foundation that was set in the early years is still strong today. Lane's Appliance Sales and Services highest priority is to build and maintain the trust and respect of its customers.



Jeremy and his family felt the Lansing area needed an appliance store that not only sells appliances, but also has the knowledge, experience, and ability to service what they sell. Lane's believes that the appliance store in Frandor, can be successful by continuing to practice the things that have always set them apart from other competitors and from the big box stores.

Through the years several things have changed and evolved, as should be expected, but the foundation that was set in the early years is still strong today. Lane's Appliance Sales and Services highest priority is to build and maintain the trust and respect of its customers.

Lane's also believes in a commitment to the community, being a great employer and a responsible citizen. Jeremy and his staff understand that each client is trusting them to come into their home for a repair or to deliver & install a new appliance. They do not take this trust lightly and see it as a priority.

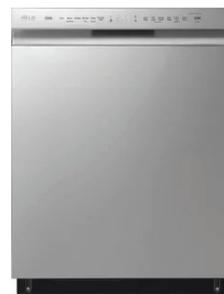
Lane's believes in hiring only the best technicians, and sales associates with training and expertise. Lane's believes in providing these employees with innovative tools and techniques as



well as product knowledge. Lane's knows the customers time and money is very valuable so the Lane's Vans can be seen delivering prompt, stress free convenient service at an affordable price. Lane's also understand there are many things that bring stress to everyday life so they strive to bring peace of mind to your appliance repair or purchase.

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FRIB

from page 6

When FRIB is at full power, Brown said, his team will be able to “reach the wings of existence.”

He was not just being poetic. A diagonal smudge, like the body of a moth, is often drawn to represent the Earth’s 280 or so stable isotopes on a graph. At FRIB, that smudge will grow huge wings — a wide-open field of a thousand isotopes or more, out of a possible 10,000, that FRIB’s high-energy accelerator will force into existence on Earth for the first time.

“Since we have a higher intensity beam, we’ll be able to produce something that’s quite rare, quite far from stability,” Brown said. “FRIB is going to open up new opportunities that haven’t been seen yet, here on the planet.”

Gold standard

Roughly half of the elements heavier than iron are made in rare, distant and spectacular processes such as the collision of two neutron stars. The high-energy collisions at FRIB will briefly approximate those extreme conditions.

“Gold is a great example,” MSU researcher Kaitlin Cook explained. “You look at the ring on your finger and go, ‘Oh my God, that was made in a neutron star,’ which is kind of wild.”

“We only find one kind of gold on Earth, but there are actually about 60 different kinds of gold possible,” Brad Sherrill said. “Why aren’t there 61, or

maybe 100, versions of gold? I don’t know. That’s a good question. That’s what we want to understand. Maybe there are, and we don’t know about it.”

MSU physics Professor Dean Lee studies fundamental interactions between nucleons (neutrons and protons), from the “two-body problem” (when two nucleons come into contact) to writhing cat-bags of nuclei with 50, 70 or more protons and neutrons.

The sheer computing power needed to predict the interactions of so many forces and particles pushes Lee’s team to the edge of super-computer technology, which is edging toward its next frontier, quantum computing. (No time for footnotes here; check out the next “Ant-Man” movie, “Quantumania,” for details.)

“One of the most exciting things about FRIB is that there’s going to be literally thousands of new things that we’ll find,” Lee said. “What are the universal laws? What are the guiding principles behind what’s going on? And what are the exceptional, the really weird cases?”

Gravity means nothing in Lee’s subatomic world, where other forces like the strong and weak nuclear forces rule, but his attitude is down to earth.



Lawrence Cosentino/City Pulse

At the April 23 “FRIB Countdown” open house, MSU chemistry researcher Kyle Brown showed off Solaris, a re-purposed medical MRI machine that will photograph and identify isotopes as they come out of the FRIB’s accelerator.

“I like to think of nuclear physics as subatomic materials science,” Lee said. “We’re actually looking to see what’s going on at the center of every atom. It’s not some abstract exercise. It’s not something you just make up. It’s at the heart of every atom, which is the stuff we’re made of. It’s essentially everything, it’s you and me.”

Kaitlin Cook, an assistant professor of nuclear physics at FRIB, studies collisions of atomic nuclei. She joined the faculty in 2020, attracted by the caliber of MSU’s nuclear physics program and the prospect of working with FRIB.

“One of the purposes of FRIB is to explore the processes that happen in colliding neutron stars, in supernovae, in these explosive astrophysical scenarios,” Cook explained. “Some of the isotopes at FRIB aren’t even found there, either, and that’s really cool.”

Let that last sentence sink in for a zep-tosecond. It’s possible that some of the isotopes created at FRIB will only exist a couple of blocks down the street from the MSU Dairy Store, and nowhere else in the entire FRIB-ing universe.

Can we up the ante even further? It seems we can.

In a spectacular convergence of two mega-projects designed to expand human knowledge, FRIB is going on line in the same year that the most powerful tool in the history of astronomy, the James Webb Space Telescope, is launching its own operations.

“One of the fantastic things about the James Webb Telescope is that it can look at stars, even stars in other galaxies, and look at their chemical compositions,” Sherill said. “Both the Webb telescope

and FRIB put us on the cusp of a new understanding. The two are connected.”

Artemis Spyrou, a professor of physics at FRIB, already works with astrophysicists to probe the nature of matter.

“We see something, either with our telescopes or by analyzing meteorites — everything we observe in the universe — and create models to reproduce it,” she said. “I can’t predict exactly what we’ll get from the James Webb, but we’ll get a whole new set of data we’ll need to interpret. We’re pushing the limits of what two different fields can do, and then you combine those two together, it’s an exciting time for the whole field.”

“We’re in an age of scientific discovery,” Sherill agreed. “We get the benefit in Michigan that we can watch it happen here on the MSU campus, in our own backyard.”

Abstract to concrete

The U.S. Energy Department doesn’t allow photography of FRIB’s linear accelerator, but it’s no great loss. The paper-clip-shaped track, where nuclei are accelerated to more than half the speed of light, has all the visual appeal of a half-sized freight train stuck in a terminal, only without the graffiti.

From the outside, the accelerator looks like a string of 30-odd shipping containers — the “cryo-boxes” at the heart of FRIB. Inside the boxes, isotope beams whiz through superconducting tunnels called radio frequency cavities, on their way to target areas where they’ll be smashed, crunched and otherwise fragmented into rare isotopes.

The difference between a home refrigerator and the FRIB’s cryo-boxes is, literally, a question of degree.

“It follows a refrigeration cycle, like you’d normally see in your home refrigerator,” MSU cryogenics expert Jon Howard explained. Instead of keeping Eggo Waffles and Mrs. T’s Pierogies fresh, FRIB’s accelerator requires temperatures low enough to freeze just about everything in the entire universe, except helium — 4.5 degrees Kelvin, close to absolute zero.

Howard, a native of Owosso, didn’t mind explaining to his mother-in-law that he doesn’t freeze human beings — that’s cryonics — so he was happy to ex-

See FRIB, Page 10



Lawrence Cosentino/City Pulse

At an April 23 open house at MSU’s Facility for Rare Isotope Beams, visitors got a close look at one of the 13-ton cryomodules that line the linear accelerator and keep the isotope beam moving at more than half the speed of light.


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KEYNOTE SPEAKER: DR. BRENDA JONES-HARDEN

Children and Families Expert



Dr. Brenda Jones-Harden is the Alison Richman Professor for Children and Families, at the University of Maryland School of Social Work. She directs the Prevention and Early Adversity Research Laboratory, where she and her research team examine the developmental and mental health needs of young children who have experienced early adversity and toxic stress, particularly those who have been maltreated, are in foster

care, or have experienced other forms of trauma. A particular focus is preventing maladaptive outcomes in these populations through early childhood programs. She has conducted numerous evaluations of such programs, including early care and education, home visiting services, parenting interventions, and infant mental health programs. Dr. Jones-Harden is a scientist-practitioner who uses research to improve the quality

and effectiveness of child and family services and to inform child and family policy, especially in the area of child welfare. She is currently the Vice President of the Board at Zero to Three, and serves on various federal, state, and local advisory boards. She received a PhD in developmental and clinical psychology from Yale University and a Master's in Social Work from New York University.

FRIB

from page 8

plain how the cryo-boxes bathe the radio frequency cavities in liquid helium.

“Without the super-cooled temperatures they produce, the accelerator couldn’t reach the speed needed to smash the nuclei into rare isotopes,” Howard said.

It takes very two large cold boxes to bring the helium to the needed temperature, and thereby hangs a tale.

If you were driving along Mt. Hope Avenue on the morning of August 10, 2016, chances are your milk run to Meijer was delayed by a massive flatbed truck that blotted out the entire roadway, both eastbound and westbound, preceded by energy crews pulling utility wires to the side.

That was FRIB’s 100,000-pound upper cold box, which uses liquid nitrogen to pre-cool the helium to about 60 degrees Kelvin, or -352 degrees Fahrenheit, and can be seen in its fully installed glory on the cover of this issue of City Pulse.

The box was built in Oklahoma and took 10 days to travel 900 miles to MSU. It could only move in the daytime, between 9 a.m. and 3 p.m., for safety reasons. To avoid the Chicago area, it rode the Lake Michigan ferry SS Badger across Lake Michigan. To install it, the project team had to rent the only 100-ton crane in the Midwest.

Positioned next to the upper cold box is another 100,000-pound colossus, delivered to FRIB Oct. 27 of the same year: the lower, or the horizontal, cold box, where the helium is cooled to about 4.5 Kelvin, just above absolute zero.

FRIB presented Michigan’s pipefitters, concrete workers, electricians and other tradespeople with a civil construction project like no other in the state’s history.

Glasmacher said about 80 percent of FRIB’s component parts were made in the United States, and the rest from Canada and Italy.

Directly above FRIB’s linear accelerator is the “rack room,” a 500-foot-long array of densely tangled utility spaghetti and electronic control devices. Row after row of racks — 800 in all — are stitched from stem to stern by 23,000 cables with a total length of 500 miles. Cool

water is piped under the floor to dissipate the heat.

The cyclotron “stopper,” a massive double platter where superfast ion beams spiral into a slower speed for researchers to examine, is housed in a 165-ton yoke of steel poured in Bay City, Michigan.

Over 240 magnets of various types focus and steer the beam as it zips along on a paper-clip shaped track.

In the fragment separator, a 90-meter-long chain of magnets where the nuclei are sorted out, one of the magnets weighs 120 tons and another weighs 180 tons.

Glasmacher gave a special nod to the hardhats who brought the sci-fi world of FRIB into reality.

“It’s easy to have fancy ideas,” Glasmacher said. “But to make something, for real, you need welders, pipefitters, the people who drive the concrete trucks at 3 a.m. because it has to go on for 24 hours straight.”

The first of three epic FRIB concrete pours took place from 3 a.m. to sunrise on July 23, 2014, when 140 trucks dumped 1,400 cubic yards of concrete at the FRIB site. In December 2014, about 300 trucks laid 2,700 cubic yards into the “target area” where the ion beam hits the target. Finally, 350 truckloads swarmed to the site for a 25-hour March 2015 pour that laid 3,563 cubic yards under the linear accelerator tunnel, some of it 14 feet thick.

Watching the detectors

The technology of particle accelerators is a \$500 billion a year industry in the United States, embedded in everything from cancer diagnosis and treatment to making cell phones, and FRIB is at the cutting edge.

“In nuclear physics, we are really good at building devices to measure stuff that comes out — especially radiation detectors,” physics Professor Paul Guèye said.

The researchers at FRIB depend on their detectors the way James Bond depends on Q’s gadgets. The nuclear interactions scientists breathlessly anticipate happen so fast, on so small a scale, that it’s a miracle anyone but Zarathustra can detect them.

At FRIB, physics Professor Paul Guèye and his team will work with a massive stack of plastic cylinders built by un-

spun off from nuclear physics detectors that is opening new frontiers in cancer treatment.

To fuel their abnormal rate of growth, cancerous tumors consume up to 30 percent more sugar than non-cancerous tissue. Powerful PET scans detect cancer by homing in on radioactive sugars.

“You can tune these radio tracers so that some of them go to the thyroid, to other places in the body, and allow you to identify hot spots in a body, using a detector we use in nuclear physics to detect radiation,” Guèye said.

FRIB’s high tech has nearly limitless potential for clinical applications as well. Other forms of technology developed in particle accelerators “melt” cancer with beams of protons. Traditional forms of radiation rely on electrons or photons that also attack tumors. “But they’re so small they bounce all over the

place,” Guèye said, and that can harm healthy tissue. “Protons are so big they go straight to the target, get tired and huff and puff, and stop and dump their energy on the cancer DNA.”

Data gathered at FRIB may also help develop and refine another effective cancer treatment, carbon ion therapy, in which beams of heavy, energy-rich carbon nuclei are aimed at tumors deep in the body.

Many of the isotopes made at FRIB will be given to a national isotope program, also run by the energy Department. The news pages posted by that program, the National Isotope Development Center, are stacked with study after study detailing promising new isotopes that target various kinds of cancer.

Medical uses of rare isotopes get the bulk of attention, for good reason, but isotopes discovered at FRIB have the potential to change any number of games in any number of leagues, from agriculture to aerospace to electronics.

The radio tracers and detectors that fill FRIB’s corridors have the potential to unlock a myriad of natural processes, helping farmers optimize nutrient uptake from soil and track fungal growth and subsoil chemistry. Data on the decay of nuclei gathered at FRIB may provide information about how to destroy nucle-

See FRIB, Page 11



Lawrence Cosentino/City Pulse

MSU’s Facility for Rare Isotope Beams houses the world’s most powerful ion accelerator, allowing researchers to access more than 1,000 new rare isotopes never before produced on Earth.



Courtesy

Professor Dean Lee re-creates the collision of two neutrons without the benefit of FRIB’s linear accelerator.

dergraduates at MSU called a “modular neutron array,” or MoNA. Its companion piece is the Large Institutional Scintillator Array, or LISA. See what they did there? “Of course, when you have a Mona, you need a Lisa,” Guèye said with a grin. “We’re painting nuclei, after all.”

Jaideep Singh, the researcher who is working on the first FRIB experiment next week, gave a lot of love to his detectors at the April 23 open house. The following description is crude, but it’s what the Department of Energy deserves for not letting us take a picture.

First, Singh pointed to a cylinder the size of a giant bass drum with dozens of robot lampreys sucking on the front. “That detector measures the flash of light,” Singh said.

Then he pointed to a curved metal brow beetling above the drum. “If a neutron flies off, that cylindrical shell will detect the neutron,” Singh said.

Then he pointed to a boring square thing.

“The remaining parts get implanted into this box,” he concluded.

Such technology seems hopelessly specialized, but when it comes to the potential for “spin-offs” from FRIB’s state-of-the-art hardware, detectors are red hot.

Detector technology from linear accelerators has already saved countless lives. Guèye cited one “fantastic idea”

FRIB

from page 10

ar waste that otherwise will sit around for millennia.

“We push the limits to do what we do,” Guéye said. “Most of the time, the technology is not there, so we collaborate with companies around the world. That’s how we got the TV — it was an experiment using an accelerator.”

‘We’re finally here’

Artemis Spyrou can’t shake the memory of many awkward moments in a lobby or on a plane, when strangers would ask, “What do you do?” and she would tell them she’s a nuclear physicist.

“Either there’s a big pause, and there’s no follow-up question, or they’d say, ‘So, you make bombs?’ That always bothered me.”

But that has changed in recent years, and not just because widespread advances in nuclear medicine have touched so many lives. Spyrou is thrilled at public enthusiasm for FRIB at MSU, even among those who don’t fully grasp what goes on there — which, let’s face it, is pretty much everyone.

“It’s been such a pleasant surprise to see so much support from the community, this sense of pride to have such a facility,” Spyrou said. “You could feel it at the open house — the energy, the excitement.”

By carrying out the DOE Science Office’s directive “to discover, explore and understand all forms of nuclear matter,” FRIB is tapping into one of humankind’s most basic urges.

Paul Guéye recalled nights in his native Senegal, looking at the sky with his twin brother and wondering what the stars were made of.

“I’ve always been curious about how everything connects,” Guéye said. “My mind would connect things like the ripples on water after you throw a stone, and the relief circles on a mountain in a map. Unfortunately, when you go higher and higher in education, your field gets narrower and narrower, and I don’t like that.”

But Guéye found a way to specialize without specializing. What could be more universal than atomic nuclei?

“We’re all the same, but we’re all different,” Guéye said. “Yes, carbon is carbon, but we look different from each

other. Atoms are slightly different, our DNA is different, and that all goes back to the interactions of protons, neutrons and electrons.”

Glasmacher is a clear-eyed, even sardonic, observer of life. He admitted there was an element of theater in the FRIB’s much-ballyhooed “countdown” and opening, which he said was timed to coincide with spring graduation and “full hotels.”

But when it comes to FRIB’s mission, the stars fill his eyes again.



Courtesy MSU

FRIB’s 100,000-pound “cold box,” used to cool liquid helium to 60 degrees Kelvin, stopped traffic on Mt. Hope Avenue on its way from Oklahoma before being hoisted into place in August 2016.

“I like hope, because it’s so dismal without hope,” he said with a note of melancholy.

It’s been 23 years since the scientific community developed the concept of FRIB in 1999, 13 years since MSU and the Department of Energy signed a cooperative agreement to build FRIB, and eight years since FRIB broke ground at MSU.

“Now we’re finally here,” Glasmacher said. “I’m convinced that what we did is important for the nation, but it also makes me much more hopeful for humankind. We got people from all over the world, ACLU members and NRA members, people who want to wear masks and people who don’t want to wear masks, and we come here, put all that aside and focus on the work. We do something none of us could do ourselves, and do it safely and with respect. And that makes me hopeful.”

Kaitlin Cook said the basic impulse behind the public’s support and enthusiasm is not new.

“Humanity has decided that they like knowing how the universe works,” Cook said. “We’re curious about how we got here, and we’ve been like this forever, going back millennia. Humanity has decided it’s good and important, like art. We don’t just do things to live. We do things to understand.”



Michigan State University President Samuel L. Stanley and U.S. Energy Secretary Jennifer Granholm cut the ribbon today to mark the official opening of the Facility for Rare Isotope Beams at MSU. Left to right: MSU Trustee Melanie Foster, Gov. Gretchen Whitmer, MSU Trustee Dianne Byrum, U.S. Rep. Tim Walberg, Stanley, Granholm, U.S. Sens. Debbie Stabenow and Gary Peters, Reps. Elissa Slotkin and Brenda Lawrence and MSU Trustee Kelly Tebay.

Granholm, VIPs, scientists celebrate FRIB ribbon cutting

All kinds of rare, high-level interactions took place Monday, both inside and outside of MSU’s Facility for Rare Isotope Beams at the ribbon cutting ceremony at the Wharton Center’s Great Hall marking the opening of user operations.

U.S. Energy Secretary Jennifer Granholm led the way, coming home to Michigan, where she was the governor from 2003 till 2011. Gov. Gretchen Whitmer, U.S. Reps. Elissa Slotkin and Brenda Lawrence, U.S. Sens. Debbie Stabenow and Gary Peters, both D-Mich., MSU President Samuel L. Stanley and a host of local politicians joined her in celebrating FRIB’s opening day.

Whitmer had some fun with everyone’s struggle to grasp FRIB’s arcane physics.

“I could go on and on about harvesting rare isotopes, heavy ion beams and short-lived nuclei and other basic nuclear physics we talk about all the time at my dinner table every night. I won’t,” Whitmer said.

Touting FRIB as the ultimate emblem of MSU’s dynamism, the speakers predicted the facility would take the university, and the region, to an even higher electron shell.

Stanley traced the development of nuclear science at MSU, from the construction of the K-50 cyclotron in 1960 through the work of its successor lab, the National Superconducting Cyclotron Laboratory, all the way to FRIB.

“We have the nation’s top-ranked graduate nuclear physics program, granting one of every 10 of the nation’s nuclear science Ph.D.s,” Stanley declared. “There’s no better place to build this facility.”

Whitmer said FRIB would have a \$4 billion impact on Michigan’s economy and be a “talent magnet for some of the brightest minds in America and around the world.”

As governor, Granholm supported MSU’s bid to host FRIB, which many observers saw as a long shot, despite the university’s top-ranked graduate nuclear physics program. On Monday, Granholm expressed her gratitude for a chance to cut the ribbon.

She recalled the year 2008, when the Energy Department chose MSU to be the home of FRIB, as a “brutal time” for Michigan, when the auto industry was on the ropes and the economy seemed to be in free fall. “It gave us this beam of hope that sliced through such a painful moment,” she said.

She brought her voice to an awed whisper to describe the work that will be carried out inside the facility.

“This idea that this massive series of pieces of equipment, the coils of metal, the huge technology and computers, this massive investment is researching the tiniest of particles,” she said. “It is mind-blowing.”

— LAWRENCE COSENTINO



Sparrow St. Lawrence Hospital

Drive too fast on Saginaw Street and you might miss this week's Eye Candy: the Sparrow St. Lawrence Hospital near Martin Luther King Jr. Boulevard. The southeast section of the campus shown above is tucked back a hundred feet or so from the road. It has a modest courtyard that softens the masonry-heavy structure, but its trees and shrubs conceal some of the building's best features from a passing glance. A more purposeful look reveals an array of architectural details and character.

At ground level, five masonry arches extend from the base of the main structure. With floor-to-ceiling windows and bulky masonry framework, this addition would feel foreign to the rest of the structure, if not for the commensurately arched windows on the top floor. Between these two rows of pleasant arches are columns of windows separated by limestone and surrounded by varying depths of brickwork. The interwoven limestone throughout the façade is a wonderful detail that is hard to come by in modern buildings.

To top it off, the original cross of the 1924 building still stands at the center of the roofline. Directly below it, an arched cavity holds what appears to be the original statue as well, albeit it with a fresh coat of gold paint.

"Eye Candy of the Week" is our look at some of the nicer properties in Lansing. It rotates with Eyesore of the Week and Eye for Design. If you have a suggestion, please e-mail eye@lansingcitypulse.com or call Bert Schwartz at 999-5061.

REWIND

NEWS HIGHLIGHTS FROM THE LAST 7 DAYS

By KYLE KAMINSKI



BLM demands 'justice' for man shot at Meijer

The Lansing chapter of Black Lives Matter has demanded the release of the 20-year-old Lansing man, whom it identified as De-Anthony VanAtten, who was shot and injured by two East Lansing Police Department officers April 25 in the Meijer parking lot on Lake Lansing Road. At a media event outside the Ingham County Jail on Tuesday afternoon (May 3), VanAtten's family demanded authorities release the names of the officers and all video footage of the incident. Activists also wanted the officers, who are still on paid leave, to be fired and prosecuted. VanAtten was released from Sparrow Hospital this week and jailed on unrelated criminal charges.



Oldest Michigan resident dies at 114

Dewitt resident Irene Dunham — who was the oldest person in Michigan and the 10th oldest person in the world — died on Sunday (May 1). Dunham was also the oldest surviving student who attended the Bath Consolidated School before it was bombed in 1927. She survived two pandemics and lived in Lansing for more than 80 years before moving to Dewitt in 2020. Dunham's family described her as a "walking history book," the Lansing State Journal reported.

Cops: Sparrow releases man after overdose

The Michigan State Police are investigating a "medical emergency" at the Lansing Police Department detention facility after a man was seen by police officers consuming a "voluminous and life-threatening" amount of suspected narcotics on Friday (April 29). After being cleared by the staff at Sparrow Hospital and later jailed, the man reportedly had an adverse reaction to the drugs and required "lifesaving measures" before again being sent back to Sparrow Hospital. Additional details were not released while the internal investigation continues this week.

Lansing rallies for Moores Park Pool

Local fundraising groups are pushing Mayor Andy Schor

to stop "ignoring the will of the taxpaying citizens" and allocate some cash in his latest budget proposal to repair and maintain the Moores Park Pool after it was indefinitely closed by the city in 2019. Community activists want Schor to fund an \$118,000 assessment to determine plans for longer-term repairs. Without the funding, the future of the pool could be left hanging in the balance for at least another year.

Lansing woman shot on Fred Street

Lansing cops are investigating after a 33-year-old woman was shot and injured along the 800 block of Fred Street on Tuesday morning (May 3). No arrests have been made. Those with information about the incident have been encouraged to contact authorities at 517-483-4600.

Man found dead near railroad tracks

Lansing cops have launched a homicide investigation after they discovered Julian Andrew-Thomas Moore dead near the railroad tracks on the 1200 block of S. Clemens Avenue on Monday evening (May 2). Moore was recently reported missing. Those with information about the situation have been encouraged to call authorities at 517-483-4600.

Lansing reports massive power outage

About 19,000 Lansing Board of Water & Light customers — mostly in South Lansing — were left without electricity for at least 15 minutes on Saturday afternoon (April 30). BWL officials said the outage was a result of routine testing that went awry. Outages were restored by 1:45 p.m.



Nonprofit builds affordable housing

The Capital Area Housing Partnership started construction on three new affordable, single-family homes in Lansing for low-income, first-time homebuyers. Two are in the Old Oakland neighborhood on the west side and the third is in the Eaton neighborhood on the city's south side.

Cops: Detroit men stole cars from GM

Eight Detroit men and one from Saginaw were arrested by Michigan State Police troopers on Monday night (May 2) following a multi-county chase involving several Chevy Camaros that were recently reported stolen from GM's Grand River assembly plant. Some of the vehicles crashed, but no injuries were reported.



Prosecutors have since authorized an assortment of felony charges against them, including the felony operation of a stolen vehicle.

Curious Book Shop

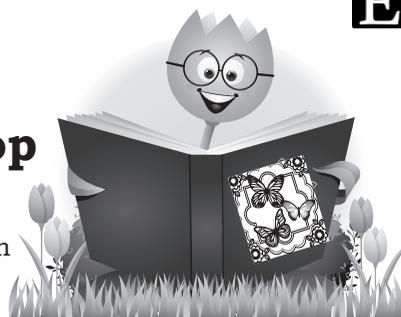
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New life for local downtowns



One of the few positives to emerge from the COVID-19 pandemic was a renewed interest in bolstering area downtowns that suffered mightily from closures and capacity restrictions on restaurants and other indoor venues. Following the adoption of an authorizing statute by state government, Lansing and East Lansing both established social districts that permit patrons to purchase and consume alcoholic beverages out-

doors within the designated district. Lansing has three such districts — Washington Square, Old Town and REO Town — and the Lansing City Council last month voted to make them permanent. East Lansing’s Albert El Fresco, which featured a plethora of outdoor activities and creative gathering spaces, also is back for the coming season. We’re thrilled that residents and visitors in both communities will be able to enjoy a more vibrant downtown experience and encourage City Pulse readers to take advantage of the districts. Let’s all do our part to help support downtown businesses as they fight to recover from the pandemic.



Some people were skeptical when Mayor Schor and the Lansing Police Department changed the city’s policing policies to deemphasize enforcement of secondary traffic violations like expired license plates. The change is important because it reduces unnecessary police encounters with citizens, especially people of color, and that, as it turns out, can save lives. Witness the recent police killing in Grand Rapids, where a routine traffic stop for a secondary vehicle infraction led to a foot chase that led to a struggle that

Policing reforms pay off

led to a GRPD officer killing Patrick Lyoya with a single shot to the back of the head. Had Grand Rapids enacted a similar policy change, Lyoya’s deadly interaction with law enforcement might not have happened because the officer wouldn’t have been trolling city neighborhoods for someone to pull over. It’s a scenario that has played itself out countless times across the nation and it needs to change. We encourage Lansing leaders to make sure that our police officers don’t engage in pointless and provocative foot or car chases of suspects who aren’t wanted for a felony and pose no known danger to the public. Moreover, the use of deadly force should never be authorized when the officer has the option to deescalate the situation, withdraw from engaging the suspect and wait for backup to arrive, all of which should have happened but didn’t in the tragic Grand Rapids incident.

Schor ditches LEAP

The CP Edit Opinion



We’re disappointed by Mayor Andy Schor’s recent decision to cancel the city’s longstanding economic development contract with the Lansing Economic Area Partnership. Now in its 15th year, LEAP has been the driving force behind a wildly successful run of transformational economic development projects across the region, from the renovation of the Ottawa Power Station to the Red Cedar Renaissance to GM’s \$2 billion investment in a new battery plant, and dozens if not hundreds more in between. Schor pulled the plug on the city’s contract with the agency for no discernible reason other than his desire to create an in-house economic development

capacity that he can directly control. Lansing will remain a dues-paying member of LEAP, and Schor apparently believes the city can get the same level of economic development services from LEAP just by being a member. He’s kidding himself. Schor appears to be signaling that he doesn’t really believe in regional economic development. If that’s the case, it’s a significant setback for regional cooperation, which should be led from the front by the city of Lansing, which has the most to gain and the most to lose by disengaging from its neighbors. What’s more, Schor cannot possibly replace the wealth of talent at LEAP, especially CEO Bob Trezise, one of the top economic development gurus in the nation, merely by hiring one or more new people to staff the duplicative Lansing Economic Development Corp. We urge the mayor to reconsider his decision.



city’s refusal to allocate some of its massive American Rescue Plan windfall to saving the pool. That Mayor Schor and Lansing Parks Director Bret Kaschinske opted not to allocate a single dollar to the project sends the clear message that saving the pool is nowhere close to being a priority. Schor has mentioned the need for a sustainability plan for the pool. It’s a legitimate concern. The annual operating costs for the pool

City abandons Moores Park Pool

would have to be baked into the city budget. But it shouldn’t be an obstacle to moving ahead with plans to renovate the pool. Sadly, it also appears the city has made no effort to apply for state or federal grants that could, in tandem with a portion of Lansing’s ARP allocation and a share of the city’s parks millage, make the project come to life. The City Council should step in and dedicate at least a million dollars from its federal ARP resources to keep the pool project moving forward. It would represent a generational investment that will ensure healthy outdoor recreational opportunities for Lansing youth and reaffirm the city’s commitment to preserving its most notable historic treasures.

Have something to say about a local issue or an item that appeared in our pages? Now you have two ways to sound off:

1.) Write a letter to the editor.

• E-mail: letters@lansingcitypulse.com • Snail mail: City Pulse, 1905 E. Michigan Ave., Lansing, MI 48912 • Fax: (517) 371-5800 • At lansingcitypulse.com

2.) Write a guest column. Contact Berl Schwartz for more information: publisher@lansingcitypulse.com or (517) 999-5061. (Please include your name, address and telephone number so we can reach you. Keep letters to 250 words or fewer. City Pulse reserves the right to edit letters and columns.)

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In the beginning, circa 2007

Death of *Roe v Wade* could be a lifeline to Michigan Democrats

By **KYLE MELINN**

Nothing is official until it's official, but we know it's coming. The U.S. Supreme Court is overturning *Roe v. Wade*, likely next month.

The impact in Michigan will be significant, functionally and politically.

First, Michigan will be one of 26 states where abortion will be illegal if not immediately, very soon after.

Attorney General Dana Nessel told the press that abortion will be illegal in Michigan the moment that decision hits. Michigan's 1931 law that bans abortion except in cases where the mother's life is at risk was never stripped from the books.

Some question if Nessel's technically accurate, but she's not far off if she is. It may take 25 days or so for the U.S. Supreme Court to dismiss an obligatory reconsideration motion before things become really official.

Gov. Gretchen Whitmer is trying to convince the Michigan Supreme Court that the 90-year-old law is unconstitutional. Honestly, Whitmer has a better shot of sinking a half-court shot at half time of a Pistons' home game.

The Michigan Court of Appeals ruled in 1997 that the Michigan Constitution does not guarantee the right to abortion, so the Michigan Supreme Court will need to be convinced otherwise.

What Michigan's 27 abortion providers will do isn't known. Nessel said she isn't going to enforce the law. Looking at where Michigan's abortion clinics are located, it's not hard to see county prosecutors in Washtenaw, Wayne and probably Oakland counties ignoring the law either.

Sanctuary Michigan counties for abortions may be the upshot. Abortions could still be conducted in Illinois and Windsor, Canada, too. Whether the women who need them will be able to make the drive is the question.

Michigan averages about 84 abortions a day, and Nessel, among others, is concerned about the desperate steps women will take if they can't travel somewhere to have an abortion. As far as Nessel is concerned, the fathering male could take desperate actions, too,

if he finds it "easier to kill" or harm a partner than be financially tied to a woman who is mothering his child.

"My grave concern is that you are going to have women who are going to die for a number of different reasons," Nessel said. "I think it will lead to further harm and further death of women in our state."

So, functionally, this decision isn't going to eliminate all abortion in Michigan, but it's expected to send some that do happen underground and unregulated.

Politically, this is a development Democrats needed. They don't need the result. They need the distraction.

Inflation is the tip-of-tongue issue for voters now, and Democrats — as the party in charge — are getting blamed for it. All things being equal, the Dems and Whitmer should be getting rolled this November, but the importance of this issue can't be underestimated.

Around 300 people gathered on the Capitol lawn to protest news of the decision.

Michigan Reproductive Freedom is collecting signatures to put on the November ballot a constitution amendment that would legalize abortion. Before the POLITICO leak was reported, the group had about 2,000 volunteers.

By 5 p.m. the following day, 900 new recruits signed up to carry clipboards around.

"It's unfortunate that it takes a horrific decision for people to realize what is at stake," said Dana Chicklas of ACLU Michigan.

Will it be enough? We don't really know. Pollster Richard Czuba of the Glengariff Group projects the decision will motivate younger voters, women and progressives.

Will it move the eye of independents off inflation and economy? Based on his numbers, 77% of independents support leaving *Roe* in place, but Czuba can't tell, yet, if it will supplant inflation as their motivating reason to vote next November.

Between this decision and Republicans' nominating 2020 election result deniers to their ticket, the pending *Roe* reversal decision is another lifeline being handed to the Democrats.

(Email Kyle Melinn of the Capitol news services MIRS at melinnky@gmail.com.)



KYLE MELINN

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Still like that old time radio

**'All Request Saturday Night'
on 94.9 WMMQ-FM digs deep**

By **CHLOE ALVERSON**

Every Saturday night, Brent Alberts, better known by his radio name Wally Londo, walks into 94.9 WMMQ-FM as local listeners light up the station's phone lines with requests for some obscure songs rarely heard on terrestrial radio.

Live, on-air — like the old days — Alberts spins those long-lost tunes.

The program, "All Request Saturday Night," is a rarity these days thanks to computers replacing actual DJs, but Alberts' passion has not waned. From 7 p.m. to midnight, he holds the torch for old-school radio programming by actually interacting with local listeners — and having the freedom to delve deep into the station's music library.

"We get into some very deep progress- es and classic rock tracks you probably would never hear on the radio," Alberts, 69, said about the long-running program. "It's a show that's pretty unusual. We focus on playing music you don't hear on the radio anymore ... secondary or tertiary songs off albums."

While many locals know him as one of the voices on WMMQ, Alberts has been making waves for decades. His first 10 years of life were in Atlanta, then his parents moved down to Florida. At just 13 years old, Alberts' mother would drive him to an area radio station, where he'd burn the midnight oil learning how to run the board. By age 16, Alberts got his first gig at WOGO-AM, a station out of New Smyrna Beach, Florida.

After high school, Alberts worked at stations all over the country, "from Miami to Seattle." In 2002, he made the move to Michigan, programming WLAV-FM, a classic rock station in Grand Rapids. He was later moved to Lansing, where he was operations manager of six radio stations. Alberts also spent time in Detroit programming for WCSX-FM, yet another classic rock station.

Looking back, Alberts said his funniest radio memory is when he interviewed actor and comedian Tommy Chong in Nashville. Though, according to Alberts, most of his war stories would only be funny to fellow radio people.

"If you can think of it, it's probably happened in radio," Alberts said. "It's a pretty crazy business, but it's become quite tame lately."

After a brief break from radio work, Alberts moved back to Lansing in 2014, and took over the "All Request" reins in October 2014, after working at various other stations. The interactive show has been a constant on Capital City airwaves since its creation in 1985, when it was established by Larry Estlack, better known as DJ Larry Allen, who died in December 2013.

Although Alberts technically retired from full-time radio last year, he said he continues to do the request show because it's "a labor of love." While radio formatting has no doubt become less of a personal experience with its listeners over the last two decades, "All Request" maintains a close connection with its loyal audience.

"I have some of the most fantastic listeners you could ever have," he said. "They're dedicated. They're there every week. They contribute. And, they basically pick the playlist for me every Saturday."

Recorded at the Townsquare Media station in Lansing, Alberts said he appreciates his callers taking the time to request long-forgotten nuggets from rock 'n' roll's past.

"A lot of people try to dig up songs they heard many, many years ago and have not been able to find or hear since then," he said. "That's one of the things we specialize in: trying hard to find songs."

He estimated a majority of his audience is over 40 years old, since ARSN concentrates on tunes from the '60s, '70s and '80s. Though, many "classic rock" stations nowadays have moved on to playing music from the '80s and '90s, like U2 and Pearl Jam, Alberts noted.

Alberts said he plays up to 50 requests a night — so long as callers don't continually request 20-minute-long epics like Pink Floyd's "Echoes." But even those colossal requests are filled. The radio station "exercises no editorial control" over the show, giving Alberts the freedom to do and play whatever he wants.

The show also features segments like "The Vinyl Cut," headed by Christopher Wardell, a Lansing music scene vet. Wardell stops in monthly to share records from his personal vinyl collection. Wardell said he has been listening to the show since his high school days in the

1990s. Even then, it was becoming a rarity.

"It was the only show I knew of that was live and call-in and request," Wardell said.

Spinning LPs on Allen's original turntable at the WMMQ studio is "a little nerve-wracking" at times, Wardell said, but he's always eager to see how Alberts will react to the music. The reaction is almost always positive, unless Wardell plays a record from KISS, one of Wardell's favorite bands — but a band Alberts openly "hates."

"I always try to surprise Wally, and I try to surprise and please the fans," Wardell said. "That's probably the most fun thing for me."

In the age of music streaming services like Spotify and Apple Music, Wardell said Alberts brings an "important human element" to radio. Their on-air chemistry is clearly heard as records spin and the two "jam and hang out," Wardell said.

"The thing I love about Wally's show is that it's five hours long, and you never know what you're going to hear," Wardell said. "It could be the deepest

Beatles track or something weird, like Captain Beyond or Captain Beefheart. Who knows?"

Occasionally, Alberts said, he'll play a one-off from the Top 40. But he tries

not to be too repetitive, for the sake of his loyal listeners — no matter what research reports say he should play. "Radio stations do a lot of research to find out what songs people want to hear the most, and so they play the popular ones over and over," he said.

Now that he's retired from full-time radio programming, he said he has more time to dig in and listen to an array of music — and his show is a reflection of that love of music, popular or not.

"All Request Saturday Night" may not have a huge audience, but the audi-



Courtesy
Brent Alberts started his radio career in 1968, when he was 16 years old.



Courtesy
Alberts has continued the legacy of Larry Allen, who started the "All Request Saturday Night" show in 1985.

ence that listens, listens for two to three hours at a time, which is pretty much unheard of," said Alberts, who added that, according to research, the average listener typically spends a fraction of that time on a radio station.

With over 50 years in radio, Alberts has endured the evolving radio business, which he describes as "ever-changing." Nowadays, he said, the field has gotten "a little more greedy" as media giants buy up smaller stations and things become more corporate. Alberts added that there's "not a lot of personality and freedom on the radio" like there was at one time.

"That's one of the reasons you don't hear as many local air talents as you used to," Alberts said. "Computers have completely changed radio."

But, no matter how the market shifts, it will never diminish his love for music and the art of broadcasting.

"It's an honor to be able to carry on Larry's tradition of doing this show," he said. "It's fun and enjoyable. It's not work for me, at all. I can't think of anything more fun to do."

'All Request Saturday Night'

94.9 WMMQ-FM
7 p.m. — midnight
(517) 334-0949, 877-400-WMMQ
WMMQ.com

Bigger and brighter: Bradley's HG keeps growing in Old Town

By CHLOE ALVERSON

Since it first opened in 2011, then inside Absolute Gallery, Bradley's HG has uprooted to a few locations around Old Town — but each move has led to growth for the local retail shop.

The home and garden store, now freshly relocated at 319 E. Cesar Chavez Ave., Lansing, was opened by owner Bradley Rakowski, who said the new location is three times larger than its former location down the street at 117 E. Cesar Chavez Ave.

In celebration of the move, Bradley's is hosting a grand opening event noon to 8 p.m. Saturday (May 7). Food and drinks will be served. Rakowski said guests can anticipate raffles and live demonstrations.

"It's going to be like you were invited for a cocktail party," he said. "It's going to be fun. A lot of great people having a great time looking at things with good conversations."

The carefully curated home-furnishing store boasts exposed brick, plenty of natural light, two kitchens and thousands of products to fit any aesthetic.

When customers walk in, what they see is "just the very tip of the iceberg."



Chloe Alverson/City Pulse

Bradly's HG moved to a bigger storefront in Old Town.

"We've got lots and lots of different styles," Rakowski said. "We cater to specific clients. We don't have a lane like some of the other stores, which might have a general look. We have a lot of different works."

Bradly's has "great accessories," like pillows, artwork and an expanded kitchenware section. When Bradley's first opened, Rakowski carried just six lines. In the new space, over 200 varied vendors are represented throughout.

"We custom tailor people's homes to their needs and their likes," Rakowski said. "That's the biggest part of our business."

He tries to find items that relate to his own style, while also filling other specific niches and categories. Rakowski said design has always been in his blood, having moved to Lansing from Muskegon to attend the Institute of Merchandising and Design.

"I'm a human being, I'm multifaceted," Rakowski said. "That's how I purchase. That's what I'm always looking for — items that are really unique."

Bradly's also has a dedicated space for the independent menswear and lifestyle shop, Birch Rak Clothier, which launched in February 2021. The retailer has everything from floral shoes to brightly patterned jackets, often inspired by Rakowski's style and clothing he bought while traveling.

"There was a need for more of the urban thing for men," Rakowski said. "There's a lot of options for women but not a whole lot for us guys."

Rakowski noted that the new location has a demonstration kitchen as well as a commercial kitchen. He intends to rent out the commercial kitchen to food trucks and local food entrepreneurs, and use it for cooking classes.

"That brings in this whole new energy into what we're going to be doing," he said. "Not only is it just a shopping experience, it's this great experience where you come in, taste things and learn how to cook."

Rakowski plans to offer interior design classes in the future, too, making Bradley's an even more interactive space. It will become "a destination" and not

just a place to shop.

While his company has once again expanded into a larger space, Rakowski said his values have not changed. One of those values is treating his "tremendous staff" with respect and compensating them well, which was something he learned while working in advertising operations at the Lansing State Journal.

"I always have treated my people how I would want my boss to treat me," he said. "I always use that philosophy. And I try to go out of my way and do right for my people — simple things, like buying them lunch. It makes a difference."

He has three full-time employees and five who work part time between Bradley's HG and Birch Rak. He describes the staff as a "family." Having an efficient staff has allowed for Rakowski to step back on some things at Bradley's.



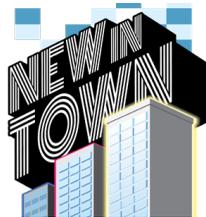
Courtesy

Bradly Rakowski opened Bradley's HG in 2011.

"It's really difficult to do all the interior design, to own the shop, to be worried about the finances and all the details," he said. "When you've got a great staff that you can really lean on, it's a huge help."

Another support system, according to Rakowski, has been his husband, Lansing City Clerk Chris Swope. Since he first opened, he said his husband has been "a really good motivator" and has remained "greatly supportive" through all of the pressures running a local business. Of course, Rakowski also said his trusted staff remains an inspiration, too.

"I just have to remember sometimes, 'You've got to do things, because you've got to be responsible for other people's lives,'" he said. "That's a great motivator to get you out of your shell."



Bradly's HG Grand Opening

319 E. Cesar Chavez Ave., Lansing
12 – 8 p.m. Saturday, May 7
(517) 999-0399
Bradlyshg.com
Regular hours:
10 a.m. – 6 p.m. Monday – Saturday
Noon – 5 p.m. Sunday

NOTICE OF PUBLIC HEARING EAST LANSING PLANNING COMMISSION

Notice is hereby given of the following public hearing to be held by the East Lansing Planning Commission on **Wednesday, May 25, 2022 at 7:00 p.m.** at the **East Lansing Hannah Community Center**, 819 Abbot Road, East Lansing, MI, 48823.

Request from Lansing Retail Management II, LLC for Special Use Permit and Site Plan approval to demolish the building at 1601 W. Lake Lansing Road and construct two new commercial buildings, one a restaurant with a drive-through window. The 1.775-acre parcel is zoned B-5 (Community Retail Sales Business District).

The public may attend and participate at all meetings in person. Members of the public may participate electronically in all meetings. Please contact the Planning and Zoning Administrator or visit the City's public meeting portal for electronic meeting access information:

Peter Menser – Planning and Zoning Administrator
410 Abbot Road
East Lansing, MI 48823
517.319.6861 or pmenser@cityofeastlansing.com
<https://cityofeastlansing.civicweb.net/Portal/>

For more information on the request please contact Planning and Zoning Administrator Peter Menser at the contact info above. Materials related to the request are available for viewing at the Department of Planning, Building, and Development, East Lansing City Hall, 410 Abbot Road, East Lansing, MI, 48823 between the hours of 8:00 am and 5:00 pm or on the City's website located at www.cityofeastlansing.com/currentapplications. Written comments may be sent prior to the public hearing to the Planning Commission, City of East Lansing, 410 Abbot Road, East Lansing, Michigan, 48823, or by email to coelplanningcommission@cityofeastlansing.com.

The City of East Lansing will provide reasonable auxiliary aids and services, such as interpreters for the hearing impaired and audio tapes of printed materials being considered at the meeting, to individuals with disabilities upon request received by the City seven (7) calendar days prior to the meeting. Individuals with disabilities requiring aids or services must contact the City Manager's Office, 410 Abbot Road, East Lansing, MI, 48823, (517) 319-6920 (TDD Number: 1-800-649-3777) or via email at nmostel@cityofeastlansing.com.

This notice is posted in compliance with PA 267 of 1976 as amended (Open Meetings Act) and the Americans with Disabilities Act (ADA) and published in compliance with the Michigan Zoning Enabling Act, 2006 P.A. 110.

Jennifer Shuster
City Clerk

CP#22-104

SPRING SPECIALS

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City Pulse needs a few **Delivery Drivers** for Wednesday morning deliveries. Interested? Contact Suzi at suzi@lansingcitypulse.com or (517) 999-6704.

Cannabis company builds giant greenhouses in Webberville

C3 Industries transforms rural Ingham County pitstop into marijuana wonderland

By KYLE KAMINSKI

It's still not quite finished, but there's something magical happening off I-96 at Exit 122. And it's about to put the rural, one-stoplight village of Webberville on the map — in quite a big way.

Before November, officials at C3 Industries said they plan to have 12,000 cannabis plants blooming their way to harvest inside 10 massive new greenhouses, which have seemingly sprouted up overnight in the corner of the secluded business park off M-52 by McDonald's.

By June, there'll be a pot shop over there too — a true farm-to-table corporate marijuana ecosphere where a seemingly endless supply of weed is grown, harvested and bagged on site and then shipped right next door for retail sales. There's also a full-blown production laboratory on site that constantly boils and bubbles bud into potent concentrates and vaporizer cartridges.

And with more than 150 people staffing the marijuana super campus, the multi-state cannabis brand from Ann Arbor expects to become the largest employer in the town before the end of the year. The closest competition is likely the nearby Aldi warehouse. Officials there didn't return messages, but similarly sized distribution centers in other cities also employ about 150 people.

Executives at C3 Industries (which comprises the Cloud Cover Cannabis brand and High-Profile dispensaries) invited me over last week for an exclusive sneak peek tour. I spent about 90 minutes dragging my jaw across their newly constructed floors in a state of pure astonishment.

Let me be the first to send a warning to the 18 dispensaries in Lansing and East Lansing: Webberville might be a small town, but this certainly is not a small-town marijuana operation. And before the end of the year, that extra 25-minute drive east down I-96 may turn out to be well worth the extra gas money in order to retrieve some superior cannabis products at relatively affordable prices.

After I geared up in a disposable sort



City Pulse/Kyle Kaminski

Cultivation Manager Damien Cook overlooks an indoor field of hundreds of marijuana plants.

of hazmat suit to keep my germs off the precious weed, the first stop on my tour of Willy Wonka's cannabis factory was at the "Mother Room," where more than 90 different types of weed serve as the foundation of the company's strain library. Small clippings from each plant create new life, as well as an endlessly rotating genetic lineup.

Several other rooms were filled with rows (and sometimes rows on top of rows) of plants in various stages of the growth cycle. Some just sprouted. Others were more than 7 feet tall.

Dozens of employees buzzed about every hallway of the facility last week — some peacefully spritzing small plants with water bottles, others rushing around with bell carts loaded with pot. At the concentrate production facility next door, several science-y types in white coats combed over spreadsheets and fiddled with small beakers and test tubes filled with other dank concoctions.

All told, the 40,000-square-foot facility can accommodate about 4,000 plants. But when construction is fully finished on those mammoth greenhouses this fall, it'll add about another 90,000 more square feet of growing space, allowing the company to ramp up production production by as much as 500%.

Operating at full capacity with at least 12,000 plants, the expansion will easily rank C3 Industries among the largest and fastest growing pot brands in Michigan. Officials there were hesitant to name their main competitors on the local market. For now, it seems to be just about everyone.

Brothers Ankur and Vishal Rungta (and their longtime friend Joel Ruggiero) launched Cloud Cover Cannabis in

2018 with a smaller grow operation in Oregon.

They moved their corporate headquarters to Ann Arbor after recreational marijuana was legalized in Michigan and finished the first stage of construction in Webberville in early 2020. High Profile operates eight dispensaries across Michigan, with plans to open six more this year. One will be in Webberville. Expansion plans are also underway in Massachusetts and Missouri — and more states to come.

Vishal Rungta emphasized three main goals during last week's tour: C3 Industries wants to control every aspect of production, squeeze every last drop of THC out of every last plant and develop a superior variety of some of the highest quality cannabis products in the country.

Vishal Rungta recognizes that the last part sounds ambitious, but he also labeled the cannabis industry as a nationwide "race," and he wants to see C3 Industries run laps on the competition.

"I think it's certainly a race. It's competitive out here, but we're hungry for it," he explained. "We know we can produce a better product than anyone else. Now it's just about bringing it to them."

Kyle Kaminski is City Pulse's managing editor and a cannabis enthusiast who has been smoking marijuana just about every day for the last decade. Editor & Publisher Magazine has also labeled him as "arguably, the state's authority on everything you need to know about cannabis." Have a suggestion for a cannabis product? Email kyle@lansingcitypulse.com.

Lansterdam
in Review:
C3 Industries



City Pulse/Kyle Kaminski

Several hundred pounds of marijuana are stored in boxes at C3 Industries in Webberville.

"LET'S TALK ABOUT THE POWER OF HEMP & CANNABIS"

May 20-21, 2022
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Lansing, Michigan
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iHemp EXPO

MidwestiHempExpo.com

**CITY OF LANSING
SUMMARY OF
ADOPTED ORDINANCE # 1300**

Lansing City Council adopted an Ordinance of the City of Lansing, Michigan, to amend the Lansing Codified Ordinances by adding Chapter 256, Sections 256.01 -256.03 to create the Diversity, Equity, and Inclusion (DEI) Advisory Board; to provide for its composition and function; and to define its duties..

Effective date: Upon publication

Notice: The full text of this Ordinance is available for review at the City Clerk's Office, 9th Floor, City Hall, Lansing, Michigan. A copy of the full text of this Ordinance may be obtained from the City Clerk's Office, 9th Floor, City Hall, Lansing, Michigan at a fee determined by City Council.

Chris Swope, Lansing City Clerk, MMC/MiPMC
www.lansingmi.gov/Clerk
www.facebook.com/LansingClerkSwope

CP#22-099

STATE OF MICHIGAN, INGHAM COUNTY PROBATE COURT. NOTICE TO CREDITORS, Decedents Estate. Case No. 21-255-DE. Estate of Donald Herbert Brock. Date of birth; 08/26/1947. **TO ALL CREDITORS: NOTICE TO CREDITORS:** The decedent, Donald Herbert Brock, died 01/16/2021. Creditors of the decedent are notified that all claims against the estate will be forever barred unless presented to Michael Edward Brock, 2047 W. Miller Rd., Lansing, MI 48911, personal representative, or to both the probate court at 313 W. Kalamazoo St., Lansing, MI 48933 and the personal representative within 4 months after the date of publication of this notice. 04/24/2022. Michael Edward Brock, 2047 W. Miller Rd., Lansing, MI 48911. 517-455-1220. **CP#22-101**

CITY OF EAST LANSING NOTICE OF FINDING OF NO SIGNIFICANT IMPACT AND NOTICE OF INTENT TO REQUEST RELEASE OF FUNDS

On or about Friday, May 13, 2022 the City of East Lansing will submit a request to the U.S. Department of Housing and Urban Development (HUD) for the release of Community Development Block Grant (CDBG) funds under Title I of the Housing and Community Development Act of 1974 (Pub. L. 93-383), as amended, to undertake a project known as the CDBG Sidewalk Project for the purpose of removal and replacement of existing sidewalk sections that the City is responsible to maintain for the public. Additionally, ADA accessible crosswalks will be installed at major intersections along Milford Street.

The proposed CDBG Sidewalk Repairs project has total project funding of \$130,000.00. The project location of the CDBG Sidewalk Repairs project will occur within the East Lansing Bailey Neighborhood, specifically along Milford Street at and between its intersections with Albert Avenue and Short Street.

FINDING OF NO SIGNIFICANT IMPACT

The City of East Lansing has determined that the project will have no significant impact on the human environment. Therefore, an Environmental Impact Statement under the National Environmental Policy Act of 1969 (NEPA) is not required. Additional project information is contained in the Environmental Review Record (ERR) on file at the City of East Lansing, City Hall located at 410 Abbot Rd, East Lansing, MI 48823. Files may be examined or copies weekdays from 8:00 a.m. to 5:00 p.m.

PUBLIC COMMENTS

Any individual, group, or agency may submit written comments on the ERR to the City of East Lansing Planning, Building, and Development Department, 410 Abbot Road, East Lansing, MI 48823. All comments can be addressed to Matt Apostle via email at mapostle@cityofeastlansing.com. All comments received by Friday, May 13, 2022 will be considered by the City of East Lansing prior to authorizing submission of a request for release of funds. Comments should specify which Notice the public is addressing.

ENVIRONMENTAL CERTIFICATION

The City of East Lansing certifies to HUD that George Lahanas in his capacity of City Manager consents to accept the jurisdiction of the Federal Courts if an action is brought to enforce responsibilities in relation to the environmental review process and that these responsibilities have been satisfied. HUD's approval of the certification satisfies its responsibilities under NEPA and related laws and authorities and allows the City of East Lansing to use CDBG Program funds.

OBJECTIONS TO RELEASE OF FUNDS

HUD will consider objections to its release of funds and the City of East Lansing's certification received by Tuesday, May 31, 2022, or a period of fifteen days from its receipt of the request (whichever is later) only if they are on one of the following bases: (a) the certification was not executed by the Certifying Officer or other officer of the City of East Lansing approved by HUD; (b) the City of East Lansing has omitted a step or failed to make a decision or finding required by HUD regulations at 24 CFR Part 58; (c) the grant recipient or other participants in the project have committed funds or incurred costs not authorized by 24 CFR Part 58 before approval of a release of funds by HUD; or (d) another Federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality (e) the City of East Lansing has omitted a step or failed to make a decision or finding required by HUD regulations at 24 CFR Part 55. Objections must be prepared and submitted in accordance with the required procedures (24 CFR Part 58 or 24 CFR Part 55) and shall be emailed to CPD_COVID-19OEE-DET@hud.gov. Potential objectors should contact HUD to verify the actual last day of the objection period.

Date: May 4, 2022
George Lahanas, City Manager
City of East Lansing
410 Abbot Road
East Lansing, MI 48823

CP#22-105

NOTICE OF TRANSPORTATION IMPROVEMENT PROGRAM PUBLIC COMMENT PERIOD

TRI-COUNTY REGIONAL PLANNING COMMISSION (TRI-COUNTY) **NOTICE** is hereby given that the public comment period on the FY 2023-2026 Transportation Improvement Program (TIP) draft document for the Greater Lansing region is May 3-17, 2022. The TIP includes all federally funded projects for four years and will invest over \$425 million in our transportation infrastructure within the tri-county region. Projects that improve our roads, highways, bridges, safety, bicycle and pedestrian pathways, public transit services, and congestion throughout Clinton, Eaton, and Ingham counties are included.

Anyone may review the draft document at mitrcpc.org/tip and fill out an online comment form. There will also be an in-person public meeting with a virtual option at 8:30 a.m. on Tuesday May 3rd. The meeting will be held at the Tri-County offices at 3135 Pine Tree Road, Ste. 2C, Lansing MI 48911 in conjunction with the Capital Area Regional Transportation Study committee meeting. An overview of the TIP document will be provided with an opportunity to comment or ask questions following the presentation. RSVP for the public meeting/get a virtual link at mitrcpc.org/events.

As the Metropolitan Planning Organization for the Greater Lansing region since 1973, Tri-County channels all federal funding for transportation projects into our local communities. This is the last chance to provide input on the transportation improvement projects planned in your community over the next several years. Learn more at mitrcpc.org/tip.

Tri-County is committed to open and accessible information. Contact clerk@mitrcpc.org to request interpretation services, accommodations for persons with disabilities, and assistance with additional needs. **CP#22-100**

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NECTAR FOR THE GODS
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DETROIT NUTRIENT COMPANY
FISH SHIT
NIWA
HORIZEN HYDROPONICS

Jonesin' Crossword

By Matt Jones

"Lex and Balances"—another themeless puzzle!

by Matt Jones

Across

1. British comedian who plays Ivan on "Our Flag Means Death"

8. Lake rental

15. Post-1968 tennis period

16. City with a SUNY school

17. Wool extract

18. Mark of shame that can be "hit" or "reached"

19. "Piece of cake"

21. Pre-packaged meals and desserts for a speedy checkout

22. Pogues bassist (and former spouse of Elvis Costello) O'Riordan

24. Nearly 20-year-old OutKast hit

25. NASCAR Cup Series champ of 2015 and 2019

29. 4:00 function

30. Respectful act

31. Symbols of September

35. Frisbee sport

38. Brisbane bouncer

41. Prepared in advance

43. Frere's sibling

45. Bachelor chaser?

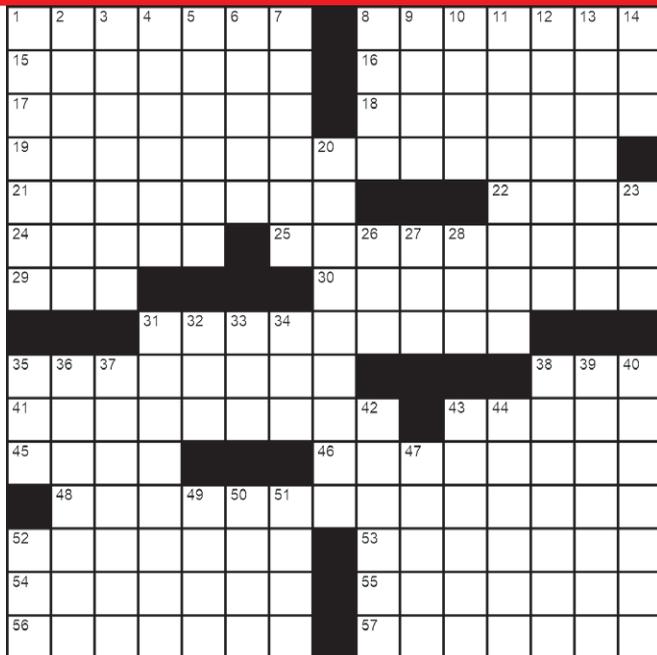
46. City dweller

48. Up and running, like a credit card reader

52. Original and influential

53. Tries to whack

54. Like some hobbitses



55. Auricular

56. Lyricist who wrote "Ain't We Got Fun?" and "Makin' Whoopee"

57. Basketball players Broyles and Benjamin (but not Wade)

Down

1. Use sparingly, with "on"

2. In a tough jam

3. Emmy-winning "Euphoria" star

4. Bumpy, like tires

5. Capital near Yellowstone

6. "Single Ladies (Put ___ On It)"

7. Title hunter of a 1922 film (whose real name was Allakariallak)

8. 2013 hit that mentions a tiger

9. "Step ___ pets" (palindrome that's good advice)

10. Hall of Fame NFL coach Ewbank

11. "Dumb & Dumber" hairstyles

12. Rented out

13. Science that deals with nuclear energy

14. Spotted, Tweety-style

20. Pumped

23. Iron Maiden's "Hallowed Be ___ Name"

26. Law, in Lyon

27. Slov.'s setting

28. ___-Z (rapper who played Freda Gatz on "Empire")

31. Certain ally

32. Schumer of "Life & Beth"

33. Jim's love on "The Office"

34. Local fundraising gp.

35. Ultravox leader Midge

36. It got its current half-oval shape in '629

37. Japanese floor mats

38. Gets control of, as spending

39. Slip-up left off

40. Euripides protagonist

42. Set the DVR back to 0%, say

43. Weaving of "Bill & Ted Face the Music"

44. Characteristic of low-quality TP

47. Club regulation

49. ___ Paqcha (Peruvian mountain)

50. Rhymester Ogden

51. Novelist Elinor who coined the "It girl" nickname for Clara Bow

52. Brit. money abbr., once

Free Will Astrology

By Rob Breznsy

May 4-10, 2022

ARIES (March 21-April 19): Poet Jennifer Willoughby writes, "I am so busy. I am practicing my new hobby of watching me become someone else. There is so much violence in reconstruction. Every minute is grisly, but I have to participate. I am building what I cannot break." I wouldn't describe your own reconstruction process during recent months as "violent" or "grisly," Aries, but it has been strenuous and demanding. The good news is that you have mostly completed the most demanding work. Soon the process will become more fun. Congratulations on creating an unbreakable new version of yourself!

TAURUS (April 20-May 20): Rapper and entrepreneur Jay-Z tells us, "Don't ever go with the flow. Instead, be the flow." Here's what I think he means: If we go with the flow, we adjust and accommodate ourselves to a force that is not necessarily aligned with our personal inclinations and needs. To go with the flow implies we are surrendering our autonomy. To claim our full sovereignty, on the other hand, we are wise to be the flow. We should create our own flow, which is just right for our unique inclinations and needs. I think this is the right approach for you right now, Taurus. Be the flow.

GEMINI (May 21-June 20): The Italian language used to be a dialect spoken in Tuscany. That area comprises less than eight percent of the country's territory. How did such a dramatic evolution happen? Why did a local dialect supersede other dialects like Piedmontese, Neapolitan, Sicilian, and others? In part, it was because three potent 14th-century writers wrote in the Tuscan dialect: Dante Alighieri, Francesco Petrararch, and Giovanni Boccaccio. Another reason: Because Tuscany is centrally located in Italy, its dialect was less influenced by languages in France and other nearby countries. I offer this as a metaphor for you in the coming months. One of your personal talents, affiliations, or inclinations could become more influential and widespread—and have more authority in your life.

CANCER (June 21-July 22): "Always strive to be more interested than interesting," said actor and activist Jane Fonda. That may not be easy for you to accomplish in the near future, dear Cancerian. Your curiosity will be at peak levels, but you may also be extra compelling and captivating. So I'll amend Fonda's advice: Give yourself permission to be both as interested and as interesting as you can imagine. Entertain the world with your lively personality as you go in quest of new information, fresh perceptions, and unprecedented experiences.

LEO (July 23-Aug. 22): "When in doubt, act like God," proclaimed Leo singer-songwriter Madonna. I wouldn't usually endorse that advice. But I'll make an exception for you Leos during the next three weeks. Due to a divine configuration of astrological omens, you are authorized to ascend to new heights of sovereignty and self-possession—even to the point of doing a vivid God impersonation. For best results, don't choose an angry, jealous, tyrannical deity to be your role model. Pattern yourself after a sweeter, funnier, more intimate type of celestial being.

VIRGO (Aug. 23-Sept. 22): My Virgo friend Amanda told me she felt tight and overwrought. She was overthinking and on the verge of a meltdown. With a rueful sigh, she added, "I adore anything that helps me decompress, unwind, simmer down, stop worrying, lighten up, compose myself, and mellow out." So I invited her to take deep breaths, close her eyes, and visualize herself immersed in blue-green light. Then I asked her to name influences she loved: people, animals, natural places, music, books, films, art, and physical movements that made her feel happy to be alive. She came up with eight different sources of bliss, and together we meditated on them. Half an hour later, she was as relaxed as she had been in months. I recommend you try a comparable exercise every day for the next 14 days. Be proactive about cultivating tranquil delight.

LIBRA (Sept. 23-Oct. 22): Author Anne Lamott is renowned for her tender approach to expressing her struggles with addiction, depression, and other tribulations. One of her supreme tests was being a single mother who raised her son Sam. In this effort, she was her usual plucky self. Anytime she hosted playdates with Sam's young friends at her home, she called on the help of crayons and paint and pens and clay and scissors. "When we did art with the kids, the demons would lie down," she testified. I recommend a comparable strategy for you in the coming days, Libra. You will have extra power as you tame, calm, or transform your demons. Making art could be effective, as well as any task that spurs your creativity and imagination.

SCORPIO (Oct. 23-Nov. 21): "My heart has developed a kind of amnesia, where it remembers everything but itself," writes Scorpio poet Sabrina Benaim. If you suffer a condition that resembles hers, it's about to change. According to my astrological analysis, your heart will soon not only remember everything; it will also remember itself. What a blissful homecoming that will be—although it may also be unruly and confounding, at least in the beginning. But after the initial surprise calms down, you will celebrate a dramatic enhancement of emotionally rich self-knowledge. You will feel united with the source of your longing to love and be loved.

SAGITTARIUS (Nov. 22-Dec. 21): "Just because things hadn't gone the way I had planned didn't necessarily mean they had gone wrong," writes Sagittarian author Ann Patchett. Her thought may be helpful for you to meditate on. My guess is that you will ultimately be glad that things didn't go the way you planned. God or your Higher Self or the Mysterious Forces of Destiny will conspire to lead you away from limited expectations or not-big-enough visions so as to offer you bigger and better blessings.

CAPRICORN (Dec. 22-Jan. 19): Novelist Jane Austen (1775-1817) confessed she was a "wild beast." Really? The author who wrote masterfully about the complex social lives of wealthy British people? Here's my theory: The wild beast in her made her original, un sentimental, humorous, and brilliant in creating her stories. How is your own inner wild beast, Capricorn? According to my reading of the astrological omens, now is an excellent time to give it fun, rich assignments. What parts of your life would benefit from tapping into raw, primal energy?

AQUARIUS (Jan. 20-Feb. 18): Aquarian poet Jack Gilbert wrote, "I lie in the dark wondering if this quiet in me now is a beginning or an end." I don't know how Gilbert solved his dilemma. But I suspect you will soon be inclined to pose a similar question. In your case, the answer will be that the quiet in you is a beginning. Ah! But in the early going, it may not resemble a beginning. You might be puzzled by its fuzzy, meandering quality. But sooner or later, the quiet in you will become fertile and inspirational. You will ride it to the next chapter of your life story.

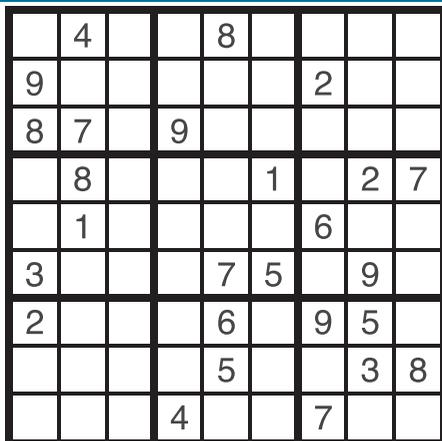
PISCES (Feb. 19-March 20): The genre of poetry known as haiku often relies on unexpected juxtapositions. Critic R. H. Blyth observed, "In haiku, the two entirely different things that are joined in sameness are poetry and sensation, spirit and matter." I suspect your life in the coming weeks will have metaphorical resemblances to haikus. You will be skilled at blending elements that aren't often combined, or that should be blended but haven't been. For inspiration, read these haikus by Raymond Roseliep. 1. in the stream / stones making half / the music. 2. horizon / wild swan drifting through / the woman's body. 3. birthcry! / the stars / are all in place. 4. bathwater / down the drain / some of me. 5. grass / holding the shape / of our night. 6. campfire extinguished, / the woman washing dishes / in a pan of stars.

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Answers on page 22

SUDOKU

Beginner



TO PLAY

Fill in the grid so that every row, column, and outlined 3-by-3 box contains the numbers 1 through 9 exactly once. No guessing is required. The solution is unique.

Answers on page 22

Go to RealAstrology.com to check out Rob Breznsy's EXPANDED WEEKLY AUDIO HOROSCOPES and DAILY TEXT MESSAGE HOROSCOPES. The audio horoscopes are also available by phone at 1-877-873-4888 or 1-900-950-7700.

TURN IT DOWN!

Loud dispatches from Lansing's music scene

BY RICH TUPICA

SILKTAIL DROPS 'IN YOUR OWN SHADE' LP



Nate Iverson



Nate Iverson

Silktail, a Lansing-based alt-rock band, returns with its first full-length LP, "In Your Own Shade."

Lansing-based band melds shoegaze and alt-rock into a colossally dynamic sound

Melding a lush wave of distorted guitars with undeniably magnetic vocal melodies is what Silktail does best — and the sonic proof is fully documented. Back in 2019, the band issued its debut EP, "Salt," and then dropped a limited 7-inch, "Vapor," in 2021.

The Lansing-based outfit returns Friday (May 6) with "In Your Own Shade," its first full-length album). Released via Setterwind Records, the record will be available to stream and pressed on 180-gram vinyl. The new LP features the single "Blind Joy" and echoes mid-90's emo bands as well as alt-rock heroes, like Dinosaur Jr. and Hüsker Dü — creating a hard-hitting dose of modern shoegaze. A release show is set for June 10 at The Avenue Cafe. Here's what the band had to say.

Looking back, what was it like working on Silktail during the pandemic shutdown?

Ben Jensen: We've pretty much just been writing and learning to record ourselves throughout the pandemic. The majority of us are very fortunate in that we were able to start working from home during lockdown. Working from home means more video meetings — which means more time to noodle around on a guitar while you're muted, which resulted in Jake really

quickly being able to come up with a huge pool of ideas for us to choose from. In the early days of lockdown, we would go over ideas via Facetime and then record all of our parts individually — usually very crudely. Those became our demos.

Over time, as we got a better idea of COVID and our own comfort levels, we started practicing in person and were able to work the details out really organically because we were all already on the same page in terms of the structure of the songs. I was able to put some of my stimulus money into some recording equipment, and our friend Nate Iversen at Smog Moon Recordings taught me how to use it, so it only made sense to record the "Vapor" EP and the full-length ourselves. It feels weird to say, since the pandemic had such a negative impact on so many people, but it was one of the better things to happen to us as a band.

Did you record "In Your Own Shade" at a studio?

Ben Jensen: We tracked everything ourselves in our drummer Alex's basement and it was mixed and mastered by Nate Iversen. The "Vapor" EP was sort of a trial run to prove that we could actually pull off a self-recorded release, and we took everything we

learned from that experience and built upon it for this release. It was mostly recorded throughout the fall and winter of 2021, and we really took our time making sure every nuance and layer was where we needed it to be — that is a luxury of self-recording. But we mostly just keep adding rhythm guitar layers with subsequent releases and Nate keeps investing in better and better mixing equipment. We feel like it's made a huge difference in the finished product.

How does this new LP compare to your previous releases?

Ben Jensen: We feel like this is our most fully realized release yet. The four of us have been playing music together for over a decade, but this is a relatively new genre for us, and "In Your Own Shade" demonstrates our better understanding and intentionality of what we're actually trying to do. Compared to the "Salt" EP, everybody is way more confident in the parts that they wrote, and it results in a more cohesive album.

We've also dedicated more effort to figuring out vocal harmonies, with a lot of help from Jake's wife, Julia — the unofficial sixth member of the band. That has gone a long way towards accomplishing what we've set out to do.

Lyrical, what was fueling the new LP?

Jacob Weston: With Silktail, I've made a conscious effort not to overthink the lyrics and just let them develop with the song into whatever topic takes form. With that being said, "In Your Own Shade" was mostly inspired by our environment, the people we surround ourselves with, the music we listen to and how we navigate mental health through all the noise — both internal and external.

Looking at your personal record collections, are there many bands you all agree on?

Jacob Weston: As a group, we all bring different tastes and influences to the table. We've been playing music together in different bands and genres for a decade or more now, and even with that connection we share, there are very few bands we see eye-to-eye on. From a guitar and vocal perspective, Silktail is very influenced by Swervedriver, Hum, Small Brown Bike and Sunny Day Real Estate. For the entire band, we all come together on the classics like Oasis and Smashing Pumpkins. It's a great dynamic because we all trust each other's taste.



OUT on the TOWN

Events & Happenings in Lansing This Week

Events must be entered through the calendar at lansingcitypulse.com.
 Deadline is 9 a.m. Monday for the following week's issue. Charges may apply for paid events to appear in print. If you need assistance, please call Suzi at (517) 999-6704.

LIVE + LOCAL

B&I Bar

5247 Old Lansing Rd., Lansing
Rollin Brummette
 Sat., May 7, 8-11 p.m.

Blue Owl

1149 S Washington, Lansing
Elden Kelly and Gregg Hill
 Thurs., May 5, 6-8 p.m.

Eaton Rapids Craft Co.

204 N. Main St., Eaton Rapids
The Rolling Hills
 Fri., May 6, 7-10 p.m.
Flipside
 Sat., May 7, 7-10 p.m.

Green Door

2005 E. Michigan Ave., Lansing
Soulstice
 Fri., May 6, 8:30p.m.

The Corzo Effect

Sat., May 7, 8:30 p.m.

Lansing Brewing Company

518 E. Shiawassee St., Lansing
Cinco De Mayo Patio Party
 Thurs., May 5, 5-11 p.m.

The Robin Theatre

1105 S. Washington, Lansing
Lynn Miles
 Wed., May 1, 7:30-10 p.m.

Wednesday, May 4

2022 Capitol Climb out of the Darkness/Perinatal Mood Awareness Event - raising funds and awareness about perinatal mood and anxiety disorders. 12-2 p.m. The Capitol Building, 100 N. Capitol Ave, Lansing.

21st Annual Women United Lighting the Path Luncheon - a fundraiser that supports programming for middle schoolers who identify as girls. 11:30 a.m.-1 p.m. Huntington Club at Spartan Stadium, 325 W Shaw Lane, East Lansing. micauw.org

50 over Fitness - The Meridian 50 Plus Stretch and Flex Exercise group, 9-10 a.m. Meridian Twp. Central Park Pavilion, 5151 Marsh Rd., Okemos. 517-853-4600. meridian50plus.com.

Allen Farmers Market - 3-6 p.m. Allen Market Place, 1611 E Kalamazoo, Lansing.

Art Exhibit: This Rebirthing - 12-4 p.m. The Peoples Church, 200 W. Grand River Ave., East Lansing. 517-332-5073.

Hunting the Elusive Morel Mushroom

Arts Night Out

Friday, May 6
 5 p.m.

Old Town, Lansing

Arts Night Out, the Arts Council of Greater Lansing's bi-monthly event in Old Town, returns this week. Celebrate local artists and businesses through live music, curated exhibits, crafts, demonstrations and more. The free event is open to the public, with multiple businesses along César E. Chávez Avenue and Turner Street set to participate. Most businesses offer extended hours. Colored pencil artist Robert Baecker will be at Absolute Gallery, while Joe Smalley Photography will be featured at October Moon Home Stay, to name a few. Arts Night Out started in 2016 with the goal of merging creativity and the community experience.



with Anthony Williams - Friends of GLADL 2022 Annual Meeting. 6-8 p.m. Grand Ledge Area District Library, 131 E. Jefferson St., Grand Ledge. 517-627-7014. gladl.org

Indoors/Outdoors Andrea Jeris Art Show - through April. 10 a.m.-5 p.m. Framer's Edge and Gallery, 1856 W. Grand River Ave., Okemos. framersedge.net.

Michigan Young Birders Network Virtual Meeting - via Zoom. 7-8 p.m. Michigan Audubon, 2310 Science Parkway, Suite 200, Okemos. michiganaudubon.org.

Open Mic Night with Ric Hansel - 6pm-9pm and then Open Mic in Old Town from 9pm-12am. Urban Beat, 1213 Turner, Lansing.

Peckham Celebrates 45 Years of Mission & Service - 4:30-6:30 p.m. Peckham, 3510 Capital City Blvd., Lansing. peckham.org

TPC Art Display Honors People of Ukraine - 12-4 p.m. The Peoples Church, 200 W. Grand River Ave., East Lansing.

Weaving the Web: Earth - Join us online or in-person for a discussion of Earth. 6-8 p.m. Weavers of the Web, ATC, 809 Center St., #7A, Lansing. weaversoftheweb.org.

Wetland Walks - 5-6:30 p.m. Davis-Foster Preserve, 5120 Van Atta Road, Okemos. 517-853-4614. meridian.mi.us.

Working Women Artists Spring Show - a guild of women art makers. Through May. 10 a.m.-7 p.m. Framer's Edge, 1856 W. Grand River Ave., Okemos. 517-347-7400.

Thursday, May 5

April Daily Events @ GLADL - through 4/28. It's time for April Showers! 10 a.m.-9 p.m. Grand Ledge Area District Library, 131 E. Jefferson St., Grand Ledge. gladl.org.

An Evening of One Acts - 8-10 p.m. LCC Black Box Theatre, 411 N. Grand Ave.,

Gannon Building - Room 1422, Lansing. 517-483-1122. lcc.edu

Capital Area Audubon Society - short program followed by a tour of the Bird Banding Barn and a walk. 6:30-8 p.m. Corey Marsh Ecological Research Center, 9422 E. Herbison Rd., Laingsburg. capitalareaaudubon.org.

Open VR - Try Virtual Reality! - The VR lab is back and in-person! 1-3 p.m. Main Library, East Lansing. events.msu.edu.

Stitch 'n Bitch - Come hang out with some fellow stitching witches! 5-8 p.m. Keys to Manifestation, 809 Center Street, Suite 7, Lansing. 517-974-5540. manifestlansing.com.

Friday, May 6

50 over Fitness - The Meridian 50 Plus Stretch and Flex Exercise group. 9-10 a.m. Central Park Pavilion, 5151 Marsh Rd., Okemos. 517-853-4600. meridian50plus.com.

An Evening of One Acts - 8-10 p.m. LCC Black Box Theatre, 411 N. Grand Ave., Gannon Building - Room 1422, Lansing. 517-483-1122.

Pandemic-Burdened World

Arts Night Out in Old Town Lansing - 5 p.m. Arts Council of Greater Lansing, 1208 Turner St., Lansing. myartsnightout.com

Children's Ballet Theatre presents, "Sleeping Beauty" - Join us for a spectacular show designed for the entire family. 7-9 p.m. Holt High School, 5885 W. Holt Rd., Holt. cbtdance.org.

LAFCU Debt Relief Grant Entry Deadline - LAFCU accepting entries for an essay contest. lafcu.com.

Lansing 2600 Meeting - a monthly gathering of local hackers, phreaks, nerds, geeks, sympathizers, and others of various labelability. 6-8 p.m. The Fledge, 1300 Eureka St, Lansing. 517-230-7679.

Sensory-Friendly Silent Disco - Have a dance party with your friends where all of you can pick the music! 4-5 p.m. Eaton Rapids Area District Library, 220 S Main St., Eaton Rapids. eradl.org.

See Events, Page 23

CROSSWORD SOLUTION

From Pg. 20

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SUDOKU SOLUTION

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4	6	7	2	5	9	1	3	8
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Events

from page 22

Spring Take-Home Crafts @ GLADL - Make fun crafts. Instructions on gladl.org/curiousgladl. 10 a.m.-5 p.m. Grand Ledge Area District Library, 131 E. Jefferson St., Grand Ledge. gladl.org

TGIF Cinco de Mayo Dance Party - Everyone welcome! 7p.m. Hawk Hollow, 15101 Chandler Rd., Bath. tgifdance.com

Saturday, May 7

2nd Annual Mothers Day Craft and Vendor Show - 20+ crafters and vendors!! 10 a.m.-7 p.m. Meridian Mall, 1982 W Grand River Ave, Okemos.

ArtPath River Trail Clean Up - ArtPath 2022 is coming! 9 a.m.-12 p.m. Lansing Art Gallery & Education Center, 300 S. Washington Sq. Suite 100, Lansing. 517-574-4521.

Capitol City Chordsmen Night at the Oscars - 7-9 p.m. First Presbyterian Church, 510 W. Ottawa St., Lansing. 517-372-7464

Children's Ballet Theatre presents, "Sleeping Beauty" - 1-3:30 p.m. Holt High School's Margaret Livensparger Theater, 5885 W. Holt Road, Holt. cbtdance.org.

Cinco de Mayo 5k Run/Walk & Virtual Option - Cafecito Caliente wishes to celebrate Cinco de Mayo with its 2nd Annual Cinco de Mayo 5k Run/Walk. 9-11:30 a.m. Maguire Park, 4900 Aurelius Rd, Lansing. runsignup.com.

Courageous Conversations - 5 Saturdays Talking About Things That Matter "Thank You for the Rain" movie, ZOOM and In-person.

7p.m. Unity Spiritual Center of Lansing, 2395 Washington Rd., Lansing. unitylansing.org.

Family Day: Reflect - First Saturday means Family Day at the MSU Broad Art Museum! 11 a.m.-3 p.m. Eli and Edythe Broad Art Museum, 547 E Circle Dr, East Lansing.

Free Comic Book Day In Williamston! - at The Artisan Alcove in Williamston. 11 a.m.-6 p.m. Keller's Plaza, 100 E. Grand River Ave., Suite #213, Williamston.

Horizen Hydroponics Growers United Annual Event/Sale - 10 a.m.-5 p.m. Horizen Hydroponics, 6323 W. Saginaw Hwy, Lansing. 517-323-7668.

Lansing Under the Umbrella - Artist Umbrella Community Project - 10 a.m.-10 p.m., Umoja House, 328 Regent St., Lansing.

LCC Concert Choir - Admission is free. 7-8 p.m. Okemos Community Church, 4734 Okemos Rd., Okemos. 517-483-1122.

Master of Fine Arts Exhibition Reception and Award Ceremony - 6-8 p.m. Eli and Edythe Broad Art Museum, 547 E Circle Dr, East Lansing. 517-884-4800.

Piano Monster - 3 p.m. Fairchild Theatre, 542 Auditorium Rd, East Lansing. 517-355-1855. events.msu.edu.

St Johns Spring Fling - craft vendors, live music, kids' crafts, food vendors, sidewalk sales. 9 a.m.-2 p.m.

downtownstjohnsmi.com.

Sweet Water Warblers: Rachael Davis, May Erlewine, Lindsay Lou - 7:30-10 p.m. University United Methodist Church, 1120 S. Harrison, East Lansing. tenpoundfiddle.org.

To the Moon and Back - AM - 9 a.m. PM - 1 p.m. Impression 5 Science Center, 200 Museum Dr, Lansing. 517-485-8116. impression5.org.

Sunday, May 8

10 Minute Play Festival -2-4 p.m. LCC Black Box Theatre, 411 N. Grand Ave., Gannon Building - Rm 1422, Lansing. 517-483-1122.

Children's Ballet Theatre presents, "Sleeping Beauty" - 1-3:30 p.m. Holt High School's Margaret Livensparger Theater, 5885 W. Holt Road, Holt. cbtdance.org.

Lansing Under the Umbrella - Artist Umbrella Community Project - 10 a.m.-6 p.m., Umoja House, 328 Regent St., Lansing.

Mother's Day - All Moms Enter Free! - 9 a.m.-5 p.m. Potter Park Zoo, 1301 S Pennsylvania Ave, Lansing. 517-483-4222. potterparkzoo.org.

Monday, May 9

50 over Fitness - Meridian 50 Plus Stretch and Flex Exercise group 9-10 a.m. Central Park Pavilion, 5151 Marsh Road, Okemos. 517-853-4600. meridian50plus.com.

Comedy Night - 9-11:30 p.m. Crunchy's, 254 W Grand River Ave, East Lansing. 517-351-2506. crunchyseastlansing.com.

Flowers For Fighters - 8 a.m.-10 p.m. 4536 Garden Gate, Holt. twigsinc.org.

Tabletop Gaming Club - Open to gamers ages 10+. 6-7:30 p.m. Grand Ledge Area District Library, 131 E. Jefferson St. gladl.org.

Tuesday, May 3

Board Game Meet Up - ages 18 & up. 6:30 - 10:30 p.m. 6:30-8:30 p.m. Spare Time Bowling Alley, 3101 E Grand River, Lansing.

DDL Walking Club - explore local parks and trails around DeWitt. 10-11 a.m. DeWitt District Library, 13101 Schavey Rd. dewittlibrary.org.

Flowers For Fighters - 8 a.m.-10 p.m. 4536 Garden Gate, Holt. twigsinc.org.

Food Truck Tuesdays - 11 a.m.-2 p.m. Historic Livingston County Courthouse Lawn, 200 E. Grand River Rd., Howell.

Minecraft Mania - Join us for an evening of fun and friendly competition. 6-8 p.m. Grand Ledge Area District Library, 131 E. Jefferson St. gladl.org

Sporcle Live! Trivia - 7:30 & 8:30 p.m. Crunchy's, 254 W Grand River Ave, East Lansing. 517-351-2506. crunchyseastlansing.com.

STEM Night (All ages) - 4-6 p.m. Aurelius Branch Library, 1939 S. Aurelius, Mason. 517-628-3743. cadl.org.

Toastmaster Meeting - in person and on Zoom) - W 6:30-7:30 p.m. Downtown CADL, 401 S. Capitol, Lansing. cadl.org.

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The lovage is real: Celery on steroids

By **ARI LeVAUX**

I first felt the power of lovage in a box of Rapunzel brand vegetable bouillon with herbs. After my first taste, I had to double check the label to make sure that it was, indeed, meatless. Then, I read the fine print to figure out why.

Along with some familiar suspects — garlic, celery, parsley, dill, basil, turmeric, brewer's yeast, salt and oil — the bouillon contained this crazy little ingredient called lovage. I figured it was the missing link to complete the flavor of this satisfying elixir. I searched the grocery stores around town and found two more brands of vegetarian stock that also contained lovage. These brands also had rich, deeply satisfying flavors.

At the local herb store, there was a small jar of dried lovage root hiding behind the lungwort in what appeared to be the Harry Potter section of Butterfly Herbs. It had a smoky, musky flavor that was not what I wanted in food. Probably great for spells and stuff, but not for soup stock.

Levisticum officinale was first brought over by European settlers, who used every part of the plant as vegetable, herb or medicine. Obscure yet ubiquitous, the plant now grows wild from Florida to Saskatchewan. Lovage is a tenacious plant, happy to be ignored, with

no immediate relatives. It has the flavor of supercharged celery, and makes your mouth a little numb, like Sichuan pepper. This tingling action, like a low-level electric current, opens up intriguing possibilities for drink mixing.



Like a weed, lovage thrives on being ignored, but it doesn't spread.

The Missouligan is a lovage-based drink from Missoula, Montana. It's named after a softball team, and is composed of gin, huckleberry shrub and club soda. You serve it with a lovage straw — aka, the hollow stalk.

"Folks who really love lovage can muddle a leaf or two at the bottom of the glass," explained the drink's co-creator, Marc Moss, who has multiple lovage plants in his yard.

If you don't have lovage plants of your own, good luck finding any fresh lovage straws. Based on my experience at the herbs store, I'd be hesitant to order any lovage products from afar.

I finally found lovage at the farmers market in the form of a potted plant for sale. I brought it home, where it became the toughest plant in the yard. Like a weed, lovage thrives on being ig-

nored, but it doesn't spread. Every year the lovage grows tall and beautiful, with more flavor than I could enjoy in 10 lifetimes.

Finally, with fresh lovage of my own, I sipped Missouligans and messed

rice and garnish with chopped onions.

Serves 6

1 lb dry black beans, or three 16-ounce cans

1/2 cup chopped fresh lovage, including leaf, stem and root
8 medium carrots, whole
8 stalks celery, chopped coarsely

3 tablespoons olive oil

1 large onion, chopped

1 bunch parsley, chopped in half, with one green leafy side and one side of mostly stems.

1/4 cup cider vinegar

1 tablespoon garlic powder

1 tablespoon celery salt

1 tablespoon oregano

1 teaspoon cumin

1 teaspoon coriander

1 lb pork belly, ham, or bean pork of choice, in large chunks

Salt and pepper to taste

Cook the beans until soft, with whatever means you have available. If you have a pressure cooker or instant pot, use that. If not, soak the beans overnight and cook them for a few hours until soft.

Add the lovage, carrots and celery to a large pot of water. If you have a pasta basket insert, use that for easier removal of chunks when the time comes.

In a pan, fry the onions in the olive oil on medium until the onions turn translucent, about five minutes. Turn the heat to

low and add the parsley stems and cook until the onions start to brown but not quite burn, about ten minutes. Add the parsley leaves and stir it around for a moment, and turn off the heat.

Add the fried onion and parsley to the pasta boiler, along with the dry spices and the vinegar. Let it continue cooking until the liquid has reduced to just below the basket. Then strain the chunks — or remove the pasta basket with the chunks — and add the cooked beans to the stock.

If using canned beans, include the liquid. Add the pork if using. Put the pasta cooker and veggies back in, on top of the beans, and simmer for at least an hour, seasoning with salt and pepper as it cooks. Simmer it for hours if you can. Serve with rice and chopped onion or chives.

Andy Roberts



Inside scoop: Michigan State's Dairy Store ice cream

By CHLOE ALVERSON

As a Michigan State University alum, I'm very familiar with the Dairy Store. Some of my happiest Spartan memories revolve around its delicious, locally owned ice cream. If you're not familiar, the MSU Dairy Foods Complex Team makes a variety of ice cream and cheeses — and they're available at on campus at Anthony Hall (474 S. Shaw Lane, East Lansing). Once you arrive, the sweet, sugary aroma of ice cream will hit you almost immediately.

The Dairy Store serves 13 flavors of ice cream, which rotate weekly. Customers can get cups, cones, shakes and more. Some of the flavors are MSU or Big Ten-inspired, like the peanut butter and fudge-swirled Buckeye Blitz. Although my favorite flavor, Sesquicentennial Swirl (green cake batter and frosting), was unavailable, I made due. I opted for a single scoop of the Cookie Monster flavor — Blue Moon ice cream with Oreos and chunks of cookie dough. Are you even a true Michigander if you

don't appreciate the vanilla deliciousness that is Blue Moon ice cream? It's said to have been created in Ludington. The flavor was perfectly creamy and the crunches of cookies added a nice texture. The waffle cone was soft, sugary and freshly made. My friend chose a flavor packed with three candy bars, appropriately named Candy Bar Coma. It was the perfect taste of summer for an otherwise gloomy April afternoon.



Chloe Alverson/City Pulse

The Cookie Monster ice cream from the Michigan State University Dairy Store.

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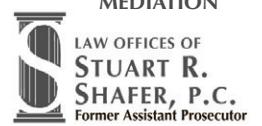
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	Cask & Co. 3415 E. Saginaw Hwy. Lansing (517) 580-3750 caskandcompany.com	A LOCAL SPOT FOR LUNCH, DINNER, AND DRINKS. A dining experience that is like no other. Featuring a fresh local buffet for a quick bite, an extensive dinner menu and happy hour specials, too! Screens to watch your favorite sporting events with your favorite people.
	El Oasis 2501 E. Michigan Ave. Lansing (517) 648-7693 eloasisfood.com	TRY THE CROWN JEWEL OF LANSING'S FOOD TRUCKS. Serving the Lansing community for 13 years, we extend an invitation to all those to give us a try to find out why we were voted the best food truck in Lansing's 2019 Top of The Town Contest.
	Eastside Fish Fry 2417 E. Kalamazoo St., Lansing (517) 993-5988 eastsidefishfry.com	GUY FIERI APPROVED! We were featured on Food Network's Diners, Drive-Ins and Dives. Our fried home-style classics and fresh seafood are some of the best in Lansing. We've got the classics: fried chicken buckets, chicken wings, exotic fare, like frog legs and alligator tails and fresh seafood. Desserts, too!
	Meat Southern BBQ 1224 Turner Rd. Lansing (517) 580-4400 meatbbq.com	WE BELIEVE EVERYONE DESERVES GREAT BBQ. Award winning BBQ. Ribs, French fry bar, chili, sides including BBQ pit baked beans, mac n' cheese. 18 rotating taps of craft, Michigan made beers. Craft cocktails. We cater, too!
	Airport Tavern 5000 N. Grand River Ave Lansing (517) 321-3852 FB: @AirportTavernandSteakhouse	WELCOME BACK! For 50 years, Airport Tavern & Steakhouse has been a staple of Lansing's community. Full bar, daily lunch and dinner specials. Ribs, steak, burgers and salads are all crowd pleasers at this neighborhood establishment.

EAST LANSING - MERIDIAN WATER AND SEWER AUTHORITY

(Ingham County, Michigan)

RESOLUTION NO. 2022-4-1**A RESOLUTION TO AUTHORIZE ISSUANCE OF****WATER SUPPLY SYSTEM JUNIOR LIEN REVENUE BONDS, SERIES 2022**

Minutes of a regular meeting of the Board of Trustees of the East Lansing-Meridian Water and Sewer Authority, Ingham County, Michigan held on April 21, 2022, at 11 :00 a.m., local time.

PRESENT: Chair McPherson, Vice-Chair Opsommer, Secretary Peterson

Trustee Brogren, Trustee Cleland, Trustee Ecklund

ABSENT: None

The following Resolution was offered by Trustee Cleland and supported by Vice-Chair Opsommer:

WHEREAS, pursuant to Act 94, Public Acts of Michigan, 1933, as amended (Act "94") and Act 233, Public Acts of Michigan, 1955, as amended (together the "Acts"), the Board of Trustees of the East Lansing - Meridian Water and Sewer Authority (the "Authority") has determined to make improvements to the Authority's water supply system; and

WHEREAS, the improvements will enable the Authority to provide more efficient and better quality public services to the users of the Water Supply System; and

WHEREAS, the improvements shall be financed in part by the issuance of revenue bonds or other evidences of indebtedness in accordance with the Acts; and

WHEREAS, Act 94 permits the Authority to authorize, within limitations which shall be contained in the authorization resolution, an officer to sell, deliver and receive payment for obligations, and to approve interest rates or methods for fixing interest rates, prices, discounts, maturities, principal amounts, denominations, dates of issuance, interest payment dates, optional or mandatory redemption rights or tender rights, obligations to be exercised by the Authority or the holder of the bonds, place of delivery and payment, and other matters and procedures necessary to complete an authorized transaction.

NOW, THEREFORE, BE IT RESOLVED as follows:

Section 1. **DEFINITIONS.** Except as provided in this Resolution, the definitions contained in the Prior Resolution (defined below) shall apply to the terms in this Resolution. In addition, whenever used in this Resolution except when otherwise indicated by context, the following definitions shall apply to the terms in this Resolution:

(a) "Authority" means the East Lansing - Meridian Water and Sewer Authority, Ingham County, Michigan.

(b) "Authorized Officer" means the Chair, the Vice Chair, and the Manager of the Authority, or any one or more of them.

(c) "Bonds" as defined in the Prior Resolution shall include the Series 2022 Bonds which are being issued as Additional Junior Lien Bonds under Section 22 of the Prior Resolution.

(d) "Construction Fund" shall mean the 2022 Water Supply System Junior Lien Revenue Bonds Construction Fund created pursuant to Section 13.

(e) "Contract Documents" means the Purchase Contract between the Authority and the MFA, the Supplemental Agreement by and among the Authority, the MFA and the State of Michigan acting through the Department of Environment, Great Lakes, and Energy, and the Issuer's Certificate for the Series 2022 Bonds or such other closing documents required by the MFA for the issuance of the Series 2022 Bonds.

(f) "Improvements" means the design, purchase, acquisition, installation and construction of improvements to the Authority's water system, including but not limited to improvements to the Authority's water plant and facilities including but not limited to the replacement of water mains and installation of new water mains; improvements to the backwash reclaim system; improvements to the lagoon disposal facilities; as well as all work, and equipment necessary and incidental to these improvements and such other water treatment plant improvements and improvements to other water system facilities the Authority shall determine to make.

(g) "MFA" means the Michigan Finance Authority created by Executive Order 2010-2, which, among other things, transferred to the Michigan Finance Authority the powers, duties and functions of the Michigan Municipal Bond Authority, created and established pursuant to Act 227, Public Acts of Michigan, 1985, as amended.

(h) "Prior Resolution" means Resolution 2019-4-2 as supplemented by Resolution No. 2020-4-3 and Resolution No. 2021-7-1.

(i) "Resolution" means this Resolution and all amendments hereto.

(j) "Series 2022 Bonds" means the Authority's Water Supply System Junior Lien Revenue Bonds, Series 2022 issued pursuant to this Resolution.

Section 2. **NECESSITY, PUBLIC PURPOSE:** It is hereby determined to be necessary for the public health, safety and welfare of the Authority to acquire and construct the Improvements to the System in accordance with the maps, plans and specifications therefore prepared by the Authority's engineers, which are hereby approved.

Section 3. **ESTIMATED COST; PERIOD OF USEFULNESS:** The cost of the Improvements has been estimated by the engineers not-to exceed \$9,100,000 including the payment of legal, engineering, financial and other expenses, which estimate of cost is

approved and confirmed, and the period of usefulness of the Improvements is estimated to be greater than thirty (30) years.

Section 4. **ISSUANCE OF BONDS.** To pay a portion of the cost of designing, acquiring and constructing the Improvements and to pay the legal and financial expenses and all other expenses incidental to the issuance of the Series 2022 Bonds, the Authority shall borrow the sum of not to exceed \$7,500,000 and issue its revenue bonds pursuant to the provisions of the Acts. The Series 2022 Bonds shall be issued in the aggregate principal sum of not to exceed \$7,500,000, as finally determined by the Authorized Officer at the time of sale, or such lesser amount thereof as shall have been advanced to the Authority pursuant to the Contract Documents.

During the time funds are being drawn down by the Authority under the Series 2022 Bonds, the MFA will periodically provide the Authority a statement showing the amount of principal that has been advanced and the date of each advance, which statement shall constitute prima facie evidence of the reported information; provided that no failure on the part of the MFA to provide such a statement or to reflect a disbursement or the correct amount of a disbursement shall relieve the Authority of its obligation to repay the outstanding principal amount actually advanced, all accrued interest thereon, and any other amount payable with respect thereto in accordance with the terms of the Series 2022 Bonds.

Section 5. **SERIES 2022 BOND TERMS.** The Series 2022 Bonds shall be issued as one fully registered manuscript bond, shall be sold and delivered to the MFA in any denomination. The Series 2022 Bonds shall be dated the date of delivery to the MFA, or such other date approved by the Authorized Officer, and shall be payable on the dates and in the amounts determined by the Authorized Officer at the time of sale provided the final maturity shall be no later than thirty years after the date of issuance. The Series 2022 Bonds shall bear interest at a rate as provided in the Contract Documents, payable semiannually on the dates determined by the Authorized Officer at the time of sale.

Notwithstanding the above, the final amount of any maturity and terms of the Series 2022 Bonds shall be as provided in the Contract Documents and will be finally determined by the Authorized Officer.

Section 6. **PAYMENT OF BONDS; PLEDGE OF NET REVENUES.** As provided in Section 6 of the Prior Resolution, the principal of and interest on the Series 2022 Bonds, as Additional Junior Lien Bonds, shall be payable from the Net Revenues derived from the operation of the System, including future improvements, enlargements and extensions thereof, after provision has been made for the payment of expenses of administration, operation and maintenance thereof and the Net Revenues of the System, including future enlargements, improvements, and extensions thereto, are hereby pledged to the payment of the principal of and interest on the Series 2022 Bonds. To secure the payment of the principal of and interest on the Series 2022 Bonds there is hereby created a lien, which shall be a statutory lien pursuant to Act 94, to and in favor of the Bondholders of the Series 2022 Bonds upon the Net Revenues of the System, including future enlargements, improvements, and extensions thereof, which is a junior lien of equal standing and priority with respect to the Net Revenues of the System securing other outstanding Junior Lien Bonds, but subordinate to the first lien on the Net Revenues of the System securing any first Lien Bonds. The Net Revenues so pledged shall be and remain subject to such lien until the payment in full of the principal of and interest on the Series 2022 Bonds or until Bonds are defeased as provided in the Prior Resolution.

The Series 2022 Bonds, including both principal and interest thereon, shall not be a general obligation of the Authority and shall not constitute an indebtedness of the Authority for the purpose of any debt limitations imposed by any constitutional or statutory provisions.

Section 7. **PRIOR REDEMPTION:** The Series 2022 Bonds issued and sold to the MFA shall be subject to redemption prior to maturity by the Authority only with the prior written consent of the MFA and on such terms as may be required by the MFA.

Section 8. **PAYING AGENT AND REGISTRATION.**

(a) **Appointment of Paying Agent.** The initial Paying Agent for the Series 2022 Bonds shall be the Authority Treasurer.

(b) **MFA's Depository.** Notwithstanding any other provision of this Resolution, so long as the MFA is the owner of the Series 2022 Bonds, (a) the Series 2022 Bonds are payable as to principal, premium, if any, and interest in lawful money of the United States of America at U.S. Bank Trust Company, National Association, or at such other place as shall be designated in writing to the Authority by the MFA (the "MFA's Depository"); (b) the Authority agrees that it will deposit with the MFA's Depository payments of the principal of, premium, if any, and interest on the Series 2022 Bonds in immediately available funds by 12:00 noon at least five business days prior to the date on which any such payment is due whether by maturity, redemption or otherwise; in the event that the MFA's Depository has not received the Authority's deposit by 12:00 noon on the scheduled day, the Authority shall immediately pay to the MFA as invoiced by the MFA an amount to recover the MFA's administrative costs and lost investment earnings attributable to that late payment; and (c) written notice of any redemption of the Series 2022 Bonds shall be given by the Authority and received by the MFA's Depository at least 40 days prior to the date on which such redemption is to be made.

Section 9. **SALE OF BONDS.** The Series 2022 Bonds shall be sold to the MFA. The Authority determines that a negotiated sale to the MFA is in the best interest of the Authority because the terms offered by the MFA are more favorable than those available from other sources of funding.

Section 10. **BOND FORM:** The Series 2022 Bonds shall be substantially in the form attached hereto as Exhibit A, and incorporated herein, with such completions, changes and additions as may be required by the MFA or as recommended by the Authority's Bond Counsel and approved by the officers of the Authority signing the Series 2022 Bonds.

Section 11. **AUTHORIZED OFFICER:** The Authorized Officer is hereby designated, for and on behalf of the Authority, to do all acts and to take all necessary steps required to effectuate the sale, issuance and delivery of the Series 2022 Bonds to the MFA. The Authorized Officer is hereby authorized to execute and deliver the Contract Documents in substantially the form presented at this meeting, with such changes, additions and

completions as are approved by the Authorized Officer. The Authority hereby approves the Contract Documents in the form presented by the MFA with such changes as are approved by the Authorized Officer. Notwithstanding any other provision of this Resolution, the Authorized Officer is authorized within the limitations of this Resolution to determine the specific interest rate or rates to be borne by the bonds, not exceeding the maximum rate allowed by law, the principal amount, interest payment dates, dates of maturities, and amount of maturities, redemption rights, the title of the Series 2022 Bonds, date of issuance, and other terms and conditions relating to the Series 2022 Bonds and the sale thereof provided, however, the last annual principal installment shall not be more than thirty years from the date of issuance of the Series 2022 Bonds. The Authorized Officer's approval of the terms shall be evidenced by his or her signature on the document or agreement stating such terms. The Authorized Officer is hereby authorized for and on behalf of the Authority, without further Board approval, to do all acts and take all necessary steps required to effectuate the sale, issuance, and delivery of the Series 2022 Bonds. The Authorized Officer, together with the Secretary and Treasurer, or any one or more of them, are authorized to execute any orders, receipts, agreements, pledge agreements, documents or certificates necessary to complete the transaction, including, but not limited to, any issuers certificate, any certificates relating to federal or state securities laws, rules or regulations, any applications to the Michigan Department of Treasury, and any revenue sharing pledge agreement. The Authority hereby approves the Revenue Sharing Pledge Agreements in the form presented by the MFA, with such changes as are approved by the Authorized Officer, and authorizes the Authorized Officer to execute and deliver the Revenue Sharing Pledge Agreement if it is required by the MFA.

Section 12. **EXECUTION OF BONDS:** Any one or more of the Chair, the Vice Chair, the Secretary or Deputy Secretary of the Authority, are hereby authorized and directed to sign the Series 2022 Bonds, either manually or by facsimile signature, on behalf of the Authority. Upon execution, the Series 2022 Bonds shall be delivered to the purchaser thereof.

Section 13. **CONSTRUCTION FUND.** The proceeds of the Series 2022 Bonds shall be deposited in the Construction Fund. Such moneys shall be used solely for the purpose for which the Series 2022 Bonds were issued. Any unexpected balance in the Construction Fund remaining after completion of the Improvements may be used for such purposes as allowed by law. After completion of the Improvements and disposition of remaining Series 2022 Bond proceeds, if any, pursuant to the provisions of this Section, the Construction Fund shall be closed.

Section 14. **CONTRACT WITH BONDHOLDERS:** The provisions of this Resolution shall constitute a contract between the Authority and the Bondholders from time to time, and after the issuance of any of such Series 2022 Bonds, no change, variation or alteration of the provisions of this Resolution may be made which would lessen the security for the Series 2022 Bonds. The provisions of this Resolution shall be enforceable by appropriate proceedings taken by such Bondholder, either at law or in equity.

Section 15. **TAX COVENANT.** The Authority covenants to comply with all requirements of the Code necessary to assure that the interest on the bonds will be and will remain excludable from gross income for federal income tax purposes. The Authorized Officer and other appropriate officials of the Authority are authorized to do all things necessary (including the making of such covenants of the Authority as shall be appropriate) to assure that the interest on the Bonds will be and will remain excludable from gross income for federal income tax purposes.

Section 16. **PUBLICATION AND RECORDATION.** This Resolution shall be published once in full in a newspaper of general circulation in the Authority qualified under state law to publish legal notices, and the same shall be recorded in the records of the Authority and such recording authenticated by the signature of the Authority Clerk.

Section 17. **RESOLUTION SUBJECT TO MICHIGAN LAW.** The provisions of this Resolution are subject to the laws of the State of Michigan.

Section 18. **SECTION HEADINGS.** The section headings in this Resolution are furnished for convenience of reference only and shall not be considered to be a part of this Resolution.

Section 19. **SEVERABILITY:** If any section, paragraph, clause or provision of this Resolution shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this Resolution.

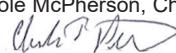
Section 20. **CONFLICT:** Except as provided above, all Resolutions and Resolutions or parts thereof, insofar as the same may be in conflict herewith, are hereby repealed to the extent of the conflict; provided, that the foregoing shall not operate to repeal any provision thereof the repeal of which would impair the obligation on the Bonds or the Prior Bonds.

Section 21. **EFFECTIVE DATE OF RESOLUTION:** Pursuant to Section 6 of the Act 94, this Resolution shall be approved on the date of first reading and this Resolution shall be effective immediately upon its adoption.

YEAS: Chair McPherson, Vice-Chair Opsommer, Secretary Peterson
Trustee Brogren, Trustee Cleland, Trustee Ecklund

NAYS: NONE

RESOLUTION DECLARED ADOPTED.


 Nicole McPherson, Chair

 Charles Peterson, Authority Secretary

CERTIFICATION

I, Charles Peterson, the duly qualified and acting Secretary of the East Lansing - Meridian Water and Sewer Authority, Ingham County, Michigan, do hereby certify that the

foregoing is a true and complete copy of a resolution adopted by the Board of Trustees at a regular meeting held on April 21, 2022.

Dated: April 21, 2022


 Charles Peterson, Authority Secretary

EXHIBIT A

**UNITED STATES OF AMERICA
 STATE OF MICHIGAN
 COUNTY OF INGHAM**

**EAST LANSING - MERIDIAN WATER AND SEWER AUTHORITY WATER
 SUPPLY SYSTEM JUNIOR LIEN REVENUE BONDS, SERIES 2022**

Interest Rate	Maturity Date	Date of Original Issue
	See Schedule I	2022

Registered Owner: Michigan Finance Authority
 Principal Amount: _____ Dollars (\$_____)

The East Lansing - Meridian Water and Sewer Authority, Ingham County, Michigan (the "Issuer"), acknowledges itself indebted and, for value received, hereby promises to pay to the Registered Owner specified above, or registered assigns, out of the net revenues of the Water Supply System of the Issuer (the "System"), including all appurtenances, additions, extensions and improvements thereto after provision has been made for reasonable and necessary expenses of operation, maintenance and administration of the System (the "Net Revenues"), the amounts and on the Dates of Maturity set forth on Schedule I hereto, together with interest thereon from the dates of receipt of such funds, or such later date to which interest has been paid, at the Interest Rate per annum specified above, first payable on 1, 20__, and semiannually thereafter on the first day of April and October of each year, except as the provisions hereinafter set forth with respect to redemption of this Bond prior to maturity may become applicable hereto.

The Issuer promises to pay to the Michigan Finance Authority (the "MFA") the principal amount of this Bond or so much thereof as shall have been advanced to the Issuer pursuant to a Purchase Contract between the Issuer and the MFA and a Supplemental Agreement by and among the Issuer, the MFA and the State of Michigan acting through the Department of Environment, Great Lakes, and Energy.

During the time funds are being drawn down by the Issuer under this Bond, the MFA will periodically provide the Issuer a statement showing the amount of principal that has been advanced and the date of each advance, which statement shall constitute prima facie evidence of the reported information; provided that no failure on the part of the MFA to provide such a statement or to reflect a disbursement or the correct amount of a disbursement shall relieve the Issuer of its obligation to repay the outstanding principal amount actually advanced, all accrued interest thereon, and any other amount payable with respect thereto in accordance with the terms of this Bond.

Notwithstanding any other provision of this Bond, so long as the MFA is the owner of this Bond, (a) this Bond is payable as to principal, premium, if any, and interest at U.S. Bank Trust Company, National Association, or at such other place as shall be designated in writing to the Issuer by the MFA (the "MFA's Depository"); (b) the Issuer agrees that it will deposit with the MFA's Depository payments of the principal of, premium, if any, and interest on this Bond in immediately available funds by 12:00 noon at least five business days prior to the date on which any such payment is due whether by maturity, redemption or otherwise; in the event that the MFA's Depository has not received the Issuer's deposit by 12:00 noon on the scheduled day, the Issuer shall immediately pay to the MFA as invoiced by the MFA an amount to recover the MFA's administrative costs and lost investment earnings attributable to that late payment; and (c) written notice of any redemption of this Bond shall be given by the Issuer and received by the MFA's Depository at least 40 days prior to the date on which such redemption is to be made.

This Bond, being one fully registered manuscript bond, is issued in accordance with the provisions of Act 94, Public Acts of Michigan, 1933, as amended, Act 233, Public Acts of Michigan, 1955, as amended and a resolution adopted by the Board of Trustees of the Issuer on April 11, 2019 and April 21, 2022 (the "Resolution"), for the purpose of paying the cost of acquiring and constructing improvements to the System. This Bond is a self-liquidating Bond, and is not a general obligation of the Issuer within any constitutional or statutory limitation, but is payable, both as to principal and interest, solely from the Net Revenues of the System. The principal of and interest on this Bond are secured by a statutory lien on the Net Revenues.

The Issuer hereby covenants and agrees to fix, and maintain at all times while any of

the Bonds shall be outstanding, such rates for service furnished by the System as shall be sufficient to provide for payment of the principal of and interest upon all such Bonds as and when the same become due and payable, to maintain a bond and interest Redemption Account and to provide for the payment of expenses of administration and operation and such expenses for maintenance of the System as are necessary to preserve the same in good repair and working order, and to provide for such other expenditures and funds for the System as are required by the Resolution. The statutory liens securing any First Lien Bonds (as defined in the Resolution) Issued by the Issuer will be first liens that shall be superior to the lien on the Net Revenues securing this Bond. The Bonds of this series shall have equal standing with the Issuer's Junior Lien Bonds (as defined in the Resolution), and any Additional Junior Lien Bonds (as defined in the Resolution) that may be issued pursuant to the Resolution. Additional bonds of superior standing to the bonds of this series may be issued pursuant to the Resolution. For a complete statement of the revenues from which, and the conditions under which, this Bond is payable, a statement of the conditions under which additional bonds of equal or superior standing may hereafter be issued, and the general covenants and provisions pursuant to which this Bond is issued, reference is made to the Resolution.

Bonds of this series may be subject to redemption prior to maturity by the Issuer only with the prior written consent of the MFA and on such terms as may be required by the MFA.

In the event of a default in the payment of principal or interest hereon when due, whether at maturity, by redemption or otherwise, the amount of such default shall bear interest (the "additional interest") at a rate equal to the rate of interest which is two percent above the MFA's cost of providing funds (as determined by the MFA) to make payment on the bonds of the MFA issued to provide funds to purchase this Bond but in no event in excess of the maximum rate of

interest permitted by law. The additional interest shall continue to accrue until the MFA has been fully reimbursed for all costs incurred by the MFA (as determined by the MFA) as a consequence of the Issuer's default. Such additional interest shall be payable on the interest payment date following demand of the MFA. In the event that (for reasons other than the default in the payment of any municipal obligation purchased by the MFA) the investment of amounts in the reserve account established by the MFA for the bonds of the MFA issued to provide funds to purchase this Bond fails to provide sufficient available funds (together with any other funds which may be made available for such purpose) to pay the interest on outstanding bonds of the MFA issued to fund such account, the Issuer shall and hereby agrees to pay on demand only the Issuer's pro rata share (as determined by the MFA) of such deficiency as additional interest on this Bond.

It is hereby certified and recited that all acts, conditions and things required by law, precedent to and in the issuance of this Bond, exist and have been done and performed in regular and due time and form as required by law and that the total indebtedness of the Issuer including this Bond, does not exceed any constitutional or statutory limitation.

IN WITNESS WHEREOF, the East Lansing - Meridian Water and Sewer Authority, Ingham County, Michigan, by its Board of Trustees, has caused this Bond to be signed, by the manual or facsimile signatures of its Chair and Authority Secretary, all as of the _____ day of _____, 2022.

Nicole McPherson, Chair

Charles Peterson, Authority Secretary

TRANSFER

For value received, the undersigned hereby sells, assigns and transfers unto

(Tax Identification or Social Security No. _____) the within Bond and all rights thereunder, and hereby constitutes and appoints _____ attorney, to transfer the within Bond on the books kept for registration thereof by the Paying Agent, with full power of substitution in the premises.

Dated: _____

Notice: The signature to this assignment must correspond with the name as it appears on the registration books every particular, without alteration or enlargement or any change whatever.

Name of Issuer East Lansing - Meridian Water and Sewer Authority

EGLE Project No: _____

EGLE Approved Amount: \$ _____

SCHEDULE I

Based on the schedule provided below, unless revised as provided in this paragraph, repayment of principal of the Bond shall be made until the full amount advanced to the Issuer is repaid. In the event the Order of Approval issued by the Department of Environment, Great Lakes, and Energy (the "Order") approves a principal amount of assistance less than the amount of the Bond delivered to the MFA, the MFA shall only disburse principal up to the amount stated in the Order. In the event (1) that the payment schedule approved by the Issuer and described below provides for payment of a total principal amount greater than the amount of assistance approved by the Order or (2) that less than the principal amount of assistance approved by the Order is disbursed to the Issuer by the MFA, the MFA shall prepare a new payment schedule, which shall be effective upon receipt by the Issuer.

Table with 2 columns: Due Date, Amount of Principal Installment Due. The table is currently empty.

Interest on the Bond shall accrue on principal disbursed by the MFA to the Issuer from the date principal is disbursed, until paid, at the rate of _____% per annum, payable _____ 1. 20____, and semi-annually thereafter.

The Issuer agrees that it will deposit with U.S. Bank Trust Company, National Association, or at such other place as shall be designated in writing to the Issuer by the MFA (the "MFA's Depository") payments of the principal of, premium, if any, and interest on this Bond in immediately available funds by 12:00 noon at least five business days prior to the date on which any such payment is due whether by maturity, redemption or otherwise. In the event that the MFA's Depository has not received the Issuer's deposit by 12:00 noon on the scheduled day, the Issuer shall immediately pay to the MFA as invoiced by the MFA an amount to recover the Bond MFA's administrative costs and lost investment earnings attributable to that late payment.

*Not to exceed amount. Loan reductions at close out will result in a proportional decrease.

CP#22-098

STATE OF MICHIGAN, INGHAM COUNTY PROBATE COURT. NOTICE TO CREDITORS, Decedents Estate. Case No. 22-409-DE. Estate of Pamela Jean Janz. Date of birth: 08/10/1960. TO ALL CREDITORS: NOTICE TO CREDITORS: The decedent, Pamela Jean Janz, died 2/9/2022. Creditors of the decedent are notified that all claims against the estate will be forever barred unless presented to Douglas Janz, personal representative, or to both the probate court at 313 W. Kalamazoo St., Lansing, MI 48933 and the personal representative within 4 months after the date of publication of this notice. 05/04/2022. Douglas Janz, 4514 Stillwell, Lansing, MI 48911. 517-517-420-0548. CP#22-102

STATE OF MICHIGAN, INGHAM COUNTY PROBATE COURT. NOTICE TO CREDITORS, Decedents Estate. Case No. 22-408-DE. Estate of Bradford D. Smith, date of birth: 05/05/1957. TO ALL CREDITORS: NOTICE TO CREDITORS: The decedent, Bradford D. Smith, died 07/18/2021. Creditors of the decedent are notified that all claims against the estate will be forever barred unless presented to Suzi Smith, personal representative, or to both the probate court at 313 W. Kalamazoo St., Lansing, MI 48933 and the personal representative within 4 months after the date of publication of this notice. 05/04/2022. Suzi Smith, 1721 Rock Way, Lansing, MI 48911. 517-749-6632. CP#22-103

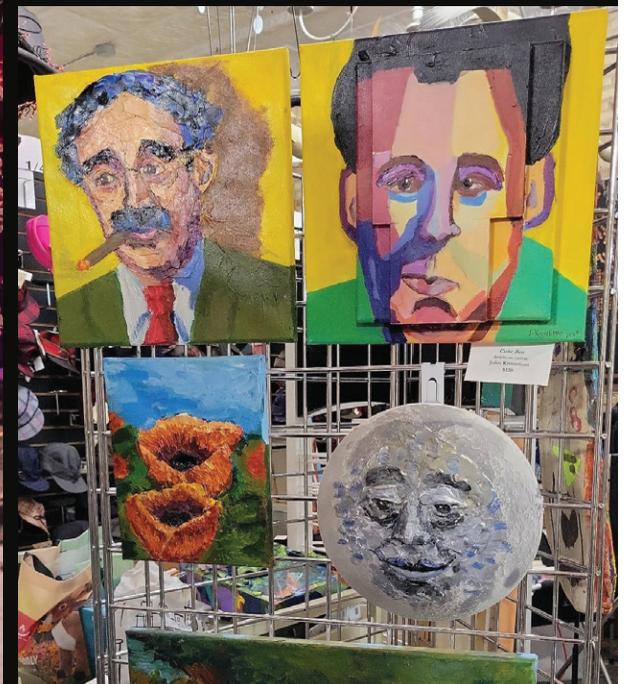


City Pulse needs a few Delivery Drivers for Wednesday morning deliveries. Interested: Contact Suzi at suzi@lansingcitypulse.com or (517) 999-6704.

ARTS NIGHT OUT

May 6th
5:00-8:00PM

- Absolute Gallery
- Arts Council of Greater Lansing
- Bad Annie's Sweary Goods
- Elderly Instruments
- Great Lakes Art and Gifts
- Katalyst Gallery
- MICA Gallery
- October Moon
- Odd Nodd Art Supply
- Old Town Commercial Association
- Old Town General Store
- Polka Dots Boutique
- Thrift Witch



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NORTHCOAST ——— 6/\$100

1g Concentrate (8,9,10)

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