MIT's Oldest and Largest Newspaper

thetech.com

The Tech
Established 1881

Volume 139, Number 29

Tuesday, November 26, 2019

WEATHER, p. 2

TUE: 58°F | 41°F
Mostly Sunny

WED: 52°F | 43°F
Partly Sunny, then Showers

THU: 47°F | 32°F
Partly Sunny

MAXIMO MACHADO—THE TECH

A cappella group Resonance and guest performer, The Chorallaries of MIT, sing a stunning performance at the Old Town Reso Friday.

The Meal Plan Working Group meets to discuss dining costs

MIT Dining currently operates at $1.6 million loss

By Kerri Lu
ASSOCIATE NEWS EDITOR

The Meal Plan Working Group discussed the financial challenges of implementing a new meal plan model at a Dormitory Council meeting Nov. 21.

Peter Cummings, executive director for administration for the Division of Student Life, said the goal of the Meal Plan Working Group is to develop "a long-term financially stable dining program" that balances nutrition and meal plan flexibility in all six residential dining halls.

"We need to break the cycle of dissatisfaction with our dining program," Cummings said, noting that the effort last spring to adjust the lowest meal plan faced "extreme pushback" from students.

Director of Campus Dining Mark Hayes said that the largest expenditure in campus dining halls is staff labor, with 67 cents of every dollar going towards paying workers a "living wage." Other constraints to the meal plan design include the geographic "proximity of dining options and barriers to quick meal swipes," Hayes said.

Cummings described MIT Dining as a "high operating cost model" and an "inherently inefficient system," especially compared to colleges with higher meal plan enrollments. The problem is exacerbated by low student participation in the meal plan system.

Hayes cited that MIT Dining currently has $11 million in costs and only $9.4 million in revenues, compared to dining system revenues of $45 million at Harvard and $29 million at Princeton. The costs include $10 million for the operation of Bon Appetit and $0.5 million in reserves for renovations.

Hayes said the addition of the New Vassar dining hall is expected to increase MIT Dining's financial

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IN SHORT

There will be no classes Thursday and Friday for the **Thanksgiving holiday**.

The Student Center will be closed for the Thanksgiving holiday from 10 p.m. on Wednesday night to 7 a.m. on Saturday morning.

Pre-registration for IAP and the spring term begins next Monday.

Undergraduate registration for **IAP PE classes** opens 8 a.m. next Wednesday.

Nominations for the annual **Dr. Martin Luther King, Jr. Leadership Award** are open until this Friday.

Interested in **joining** *The Tech*? Stop by for dinner Sunday at 6 p.m. or email *join@tech.mit.edu*.

Send news and tips to *news@tech.mit.edu*.

More seniors named '20 Rhodes Scholars

A total of 58 Rhodes Scholarships have been awarded to MIT students

By Edwin Song, Wenbo Wu, and Rujul Gandhi
ASSOCIATE NEWS EDITORS

Claire Halloran '20, Francisca Vasconcelos '20, Billy Woltz '20, and Megan Yamoah '20 were announced as American Rhodes Scholars for 2020 on Saturday. There are a total of 32 scholarships for U.S. citizens.

A fifth student, Ali Daher '20, received the Rhodes Scholarship for Syria, Jordan, Lebanon and Palestine, totaling a record high number of MIT Rhodes scholars. Daher's award was announced Nov. 15.

Fifty-eight MIT students have received this scholarship since it was first awarded in 1904.

Woltz, Vasconcelos, and Yamoah are all currently conducting research with the Engineering Quantum Systems Group in the Research Lab for Electronics.

Claire Halloran: climate policy and clean energy advocate

Claire Halloran is a Course 3 student with minors in energy studies and public policy. She has been working with solar energy both through independent projects and through her work with the Electrochemical Materials Laboratory in the department of materials science and engineering. In addition, she has worked with the Faraday Institution SOLBAT Project and the startup Form Energy on efficient battery design.

Halloran wishes to pursue a Master of Science degree in en-

Rhodes Scholars, Page 3

Dorm presidents elect new DormCon chairs

Ojute supports mutual selection; Katary says first years are worried about process

By Kerri Lu
ASSOCIATE NEWS EDITOR

Dorm presidents elected several Dormitory Council chairs for 2020 by popular vote proportional to dorm population Nov. 21.

Zawad Chowdhury '23 and Shaida Nishat '22 were elected CPW/REX chairs. Adebayo Ojute '23 and Ahmed Katary '23 were elected i3/RAC chairs. Emma Batson '20 was elected dining chair.

Ojute, Rishabh Chandra '20, and PJ Hernandez '20 also ran for CPW/REX chair, i3/RAC chair, and dining chair, respectively.

The CPW/REX chairs will work with the Admissions Office, dorm CPW/REX chairs, and administrators to coordinate dorm-based events for prospective students and incoming first years.

East Campus resident Chowdhury said at the meeting that he hopes to draw from his experience as an international student who did not attend CPW to help incoming first years "make an informed decision" about which dorm to live in.

Nishat, a Simmons resident, called CPW and REX "vital" in students' decisions on both school and dorm choice. "CPW [was] my deciding factor in coming to MIT," Nishat said. Nishat added that she has experience coordinating CPW and REX for Simmons.

East Campus President Adriana Jacobsen '20 asked the candidates how they would handle trade-offs between administrators and students. Jacobsen cited the example of administrators' request that previous

Council Chairs, Page 2

EAPS holds a teach-in to discuss Shell donations to Green Building

Speakers describe greenwashing actions by fossil fuel companies

By Kristina Chen
ASSOCIATE NEWS EDITOR

MIT Radius and EAPS Student Advisory Council co-hosted a teach-in on climate change denial by fossil fuel companies Nov. 25 in lecture hall 54-100. The teach-in was in response to the donations made by Shell for the Green Building renovations and the proposed naming of 54-100 as Shell Auditorium.

The teach-in lasted from 3:30–5:00 p.m. There were approximately 30 undergraduate and graduate students, EAPS faculty and staff, and other community members in attendance.

Deepa Rao G and Mara Freilich G, students in the EAPS department, moderated the discussion. They began the teach-in with several framing questions, such as "How has Shell in particular engaged in climate denial, greenwashing, and delaying climate action?" and "What are our climate-related values as an institution, MIT, and as a department, EAPS?"

They then introduced four speakers: Ortal Ullman, campaign coordinator in climate and energy of the Union of Concerned Scientists, Geoffrey Supran PhD '16, research associate in IDSS at MIT and history of science at Harvard, Patrick Brown PhD '16, a postdoctoral researcher at the MIT Energy Initiative, and Tessa Weiss '20, co-chair of MIT Divest.

Ullman defined greenwashing as "when a company or organization puts out deceptive information in order to create a public image that seems climate or environmentally-friendly." She then described behaviors of fossil fuel companies that have contrib-

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BEN KETTLE—THE TECH

Christian Schillinger '21 swims to gain possession in Saturday's win against Iona College.

CHASED BY GHOSTS
Help Luigi navigate a haunted mansion again. **ARTS, p. 4**

MIT DOODLES
How to pset effecively. **FUN, p. 5**

MISCELLANY
The perennial struggle at MIT. **FUN, p. 6**

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The Iliad is reimagined. **ARTS, p. 4**

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Dining dollars lowered Bon Appetit revenues by $1 million

Meal Plan, from Page 1

loss from $1.6 million to $2.2 million. Cummings said the dining hall will operate on a slightly higher cost basis than Maseeh.

Cummings said that in the past 60 years, MIT Dining has never broke even; the loss is effectively subsidized by MIT. Cummings added, "There's no way we could put that $1.6 million on the backs of the students."

The meal plan system has grown in flexibility by allowing students to choose between weekly and block plans, dropping the minimum meal plan requirement for sophomores, and introducing dining dollars. Cummings said the trade-off between flexibility and cost has increased the financial strain on MIT Dining over time.

Hayes said the dining dollar system was implemented to "provide some portability in meal plans on East Campus" in response to student feedback. The flexible use of dining dollars at retail dining venues (including 10 percent spent at off-campus venues) have decreased Bon Appetit's residential dining revenues by $1 million, Hayes said.

Hayes said the working group is also "grappling with food insecurity" on campus, citing TechMart and the SwipeShare system as examples of programs that the new meal plan model could potentially impact.

Emma Batson '20 commented that student pushback against changes to the meal plan system stem from concerns about "sensitivity to economic status" and "not having people choose their living community on the basis of whether they can afford it."

Cummings said that the working group hopes to "rationalize" the meal plan model by gathering student feedback. The development of the model will likely involve "having MIT leadership consider how to fund certain elements" of the meal plan, Cummings said.

Hayes said the Meal Plan Working Group has conducted a first round of visits to dining halls, invited students to communicate concerns to the Undergraduate Association and the Graduate Student Council, and encouraged student feedback via an online form.

Audience questions Shell's investment in science research

Teach-In, from Page 1

uted to climate inaction, such as generating uncertainty about climate change, shifting responsibility to consumers, and funding trade associations that oppose climate research.

The fossil fuel companies "know that they need your buy-in in order to continue operating as companies, and something like giving money to name an auditorium or building at MIT buys them that credit. They're trading in the good name of MIT and other institutions to buy social support," Ullman said.

Supran cited Shell's donations to MIT and Chevron's collaboration with Stanford as "the fossil fuel industry's invisible colonization of academia."

During the teach-in, audience members were allowed to submit questions and comments to a live forum, which were discussed and answered after the speakers spoke.

Questions submitted to the forum included "To what extent does Shell (and other petroleum companies) invest in scientific research at MIT and EAPS outside of the auditorium/building?" and "The irony is the more anti-dark money we become, the more dependent we become on money. How do we get better at finding clean funding to escape these conundrums?"

Robert van der Hilst, head of the EAPS department, was present for the final 20 minutes of the teach-in and spoke at its conclusion, "I would really love and encourage us all to continue having these same conversations and expand our feedback from them."

Catherine Wilka G, an EAPS student who helped organize the teach-in, said in an interview with *The Tech*, "How you do science matters, and how scientists interact with the public and ethical issues is really important."

Freilich said in an interview with *The Tech*, "The naming is a really momentous thing, and that's why I'm glad to see such a broad section of the community is interested in having this discussion. ... I hope to see a lot more of these events going forward."

Chairs value transparent communication

Council Chairs, from Page 1

years' chairs change CPW/REX booklets to replace all instances of "prefrosh" with "first year."

Nishat said that she would "consider both sides" of the conflict, emphasizing the importance of "transparency in conveying to admin what the students want."

Chowdhury concurred on the importance of transparent communication, adding that his "priority would be to make sure that dorms can represent their culture authentically and that admin accommodate that as much as possible."

The i3/RAC chairs will coordinate between administrators and dorms to create i3 videos showcasing dorm culture to incoming first years. They will also serve as liaisons for communication among dorm RACs.

Ojute said at the meeting that it would be "incredibly fun" to "help each dorm convey their culture to freshmen," noting that Burton Conner's i3 videos were instrumental in his decision to choose the dorm. "Rooming assignment is a substantial part of making [the] first year livable," Ojute said.

"From Simmons's curved walls to Next's student built escape room, the i3 videos give freshmen a better idea" of each dorm, Katary, a Maseeh resident, wrote in an email to *The Tech*. Katary wrote that he hopes to "ease the decision-making" and provide first years with a "smooth transition to their dormitories."

While Katary said at the meeting that many first years felt worried about the mutual selection system in dorm rooming assignments, Ojute expressed support for mutual selection because "it's important for communities to incorporate people that they feel comfortable with."

Next House resident Batson will communicate between dorms and the Division of Student Life on issues related to house and retail dining, such as the new meal plan model and food insecurity on campus.

Batson said she plans to "take into consideration the different needs of people across campus, whether that's dietary restrictions or monetary concerns, and make sure that everyone is able to get enough to eat."

Batson said she is "optimistic" about communicating with Director of Campus Dining Mark Hayes and the Meal Plan Working Group to ensure that changes in the dining system "make sense and work for people."

CORRECTIONS

A news article last week stated that the CUP is under the OVC. In reality, the CUP does not report to the OVC. They are working together to carry out the CUP experiments. As clarification, discovery classes do not fufill GIR requirements. In addition, the nine additional units previously stated to be restricted to discovery classes also include related approved exceptions such as advising seminars or music performance subjects.

An article in last week's issue regarding MIT's Musical Theater Guild's production of *A Chorus Line* stated that showings ran from last Friday to last Sunday. In fact, they ran from last Thursday to last Saturday.

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WEATHER

Clouds and rain carry us through the end of fall

By Sarah Weidman
STAFF METEOROLOGIST

Happy Thanksgiving, everyone! We're in that part of the semester, where every extra day of break is exceedingly welcome. If it hadn't hit you before, it is clear now that winter is soon to be upon us. The red and yellow leaves have fallen, and we are left with the dredges of autumn: bare branches, cold rains, and cloudy skies. With the early sunsets and cold, windy mornings, going outside can be unappealing; however, I recommend trying to spend as much time in the limited sunlight as you can.

Looking ahead to the week, the weather looks to be much of the same. Temperatures will hover around mid 40s and 50s, and more rain is expected Wednesday night, as a cold front moves into the area. After Thanksgiving, temperatures will continue to drop gradually, becoming much colder by the end of the weekend. We may see some more snow as everyone returns to class early next week! It's a bit too early to predict what might happen, but keep an eye out on that storm Sunday night, especially for those of you who are leaving campus for the holiday.

Extended Forecast

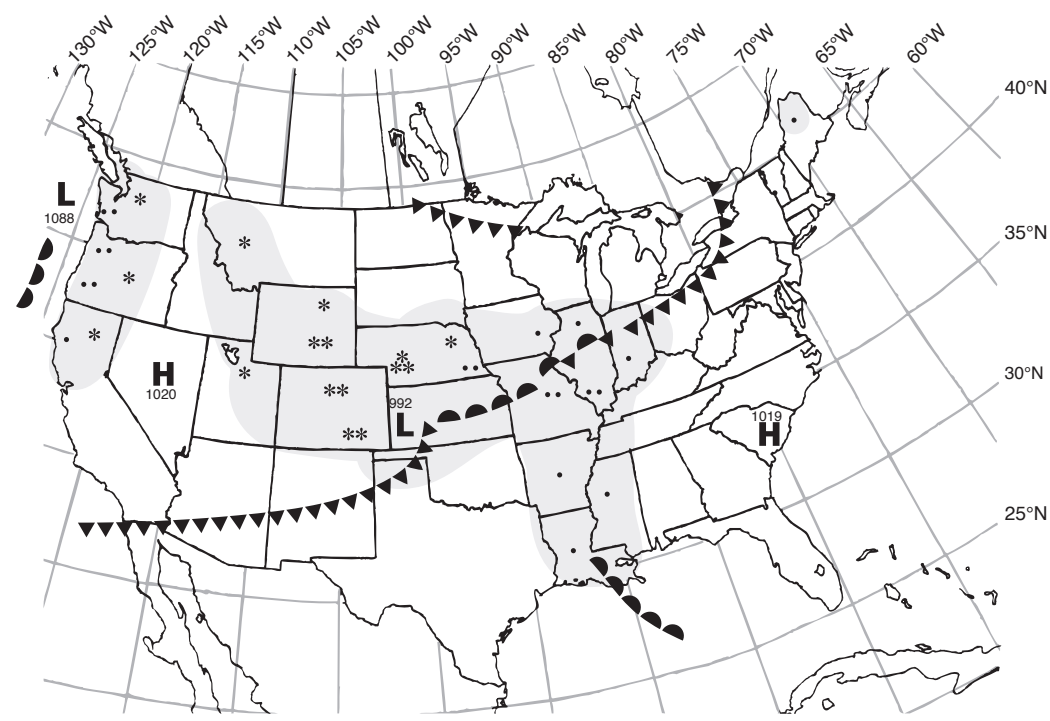
Today: Mostly sunny. High around 58°F (14°C). Southwest winds around 7-10 mph

Tonight: Partly cloudy. Low around 41°F (5°C). West winds around 5-8 mph.

Wednesday: Partly sunny, then showers. High around 52°F (11°C) and low around 43°F (6°C). North, becoming southeast, winds around 5-10 mph.

Thursday: Partly sunny and breezy. High around 47°F (8°C) and low around 32°F (0°C). Northwest winds around 16-20 mph.

Friday: Sunny. High around 41°F (5°C).



Situation for Noon Eastern Time, Tuesday, November 26, 2019

Weather Systems	Weather Fronts	Precipitation Symbols			Other Symbols
			Snow	Rain	
H High Pressure	Trough	Showers	✻ ▽	• ▽	Fog
L Low Pressure	Warm Front	Light	✻	•	Thunderstorm
§ Hurricane	Cold Front	Moderate	✻✻	••	Haze
	Stationary Front	Heavy	⁂	∴	Compiled by MIT Meteorology Staff and *The Tech*

Three Rhodes Scholars research with Engineering Quantum Systems Group

Rhodes Scholars, from Page 1

ergy systems and a Master of Public Policy degree at the University of Oxford, according to an MIT News release. Founder and director of the MIT Climate Action Team, she is passionate about climate policy and clean energy. She hopes to become a policy leader, and has held fellowships with Our Climate and the Better Future Project.

In an email to *The Tech*, Halloran said she felt "honored" to have the opportunity "to study at Oxford among some of the brightest scholars and leaders" and "grateful for all of the help and support from MIT faculty and staff, particularly the Distinguished Fellowships Office."

Halloran advises current students interested in climate change to "work outside of their labs and engage politically with this problem." She suggests that students participate in national, state, and local elections and leverage "institutional power in their future careers to promote rapid, fair decarbonization."

Francisca Vasconcelos: future quantum engineering research lab leader

Francisca Vasconcelos will graduate with a double major in Courses 6-2 and 8. Vasconcelos' current research "focuses on extending quantum state tomography for superconducting quantum processors," according to MIT News. She has also worked on other projects in the past, and has worked at the MIT Computer Science and Artificial Intelligence Lab NETMIT group, NASA Jet Propulsion Laboratory, MIT Media Lab Camera Culture Group, and Rigetti Computing. "I have UROPed almost every term I have been at MIT, in a variety of labs," Vasconcelos wrote in an email to *The Tech*.

Vasconcelos aspires to pursue a career in quantum engineering and lead a research lab. Vasconcelos wrote that she plans to pursue MSc degrees in statistics and foundations of computer science at Oxford, which she hopes will help her develop a better understanding of mathematical theory. Vasconcelos also "hopes to explore the renowned Oxford Quantum Centre and Statistics department," potentially through research.

Vasconcelos wrote in an email to *The Tech* that she is excited for the "incredible experience and opportunity to work towards my ultimate goal of becoming an academic, establishing a research laboratory, and helping push forward cutting-edge technology that will allow us to take on some of humanity's largest challenges."

Vasconcelos urges current students to discover and pursue their passion, participate in research and UROPs, and "keep an open mind." Vasconcelos pointed out the importance of cross-discipline knowledge due to "how much distinct fields and topics ... can overlap, allowing you to draw inspiration from previous work."

She also praised her HASS classes, writing that in "order to grapple with some of the largest challenges facing our generation, it is important to understand the ethical, societal, philosophical, and political impact of the technologies we develop."

Billy Woltz: aspiring quantum researcher and science and technology policy advisor

Billy Woltz is a double major in Courses 8 and 6-2. His research with the Engineering Quantum Systems Group focuses on developing a superconducting qubit platform for quantum information processing. He has also conducted research with the Laboratory for Nuclear Science and the Physics of Life Systems Group in the Department of Physics.

Woltz wrote in an email to *The Tech* that he plans to pursue a second bachelor's degree in philosophy, politics, and economics to "balance the technical training [he has] received at MIT."

He wrote, "This opportunity will greatly enrich my education and pay massive dividends throughout my career as I research methods for improving quantum technologies while advising legislators on science and technology policy issues."

Woltz captains the varsity track and field and cross-country teams. He also "founded a summer camp to teach computer science skills to underserved Appalachian and refugee students in rural and urban Ohio communities," according to MIT News.

Woltz encourages MIT students to apply for awards such as the Rhodes Scholarship "if they find an academic program that excites them." For the application, Woltz advises students "simply to be yourself and go all-in on the things that interest you" but also "think about the place you and your work occupy in society, and how your work can improve the lives of other people."

Megan Yamoah: leader in the undergraduate physics community

Megan Yamoah is a double major in Courses 6-1 and 8 interested in technology and international development. Yamoah plans to pursue a Master of Philosophy degree in economics at Oxford to study how innovation can guide emerging economies. She has organized workshops to combat local challenges such as food insecurity while serving as a project committee member for MIT Design for America.

She has also been involved in physics research since high school, when she worked at the Goldhaber-Gordon Laboratory, which studies electrons in nanostructures.

Yamoah did a summer internship for the Q Circuits Group at the École Normale Supérieure de Lyon, according to MIT News. She also attended workshops for the MIT Regional Acceleration Program, where she connected with various stakeholders seeking to spearhead innovation.

As president of the MIT chapter of the Society of Physics Students, Yamoah helped develop the first-ever physics department statement of values, according to MIT News. She is also an executive board member of Undergraduate Women in Physics and has served multiple roles in the Society of Women Engineers.

Yamoah did not respond to *The Tech*'s request for comment as of press time.

The Rhodes Scholarship is an international postgraduate award established in 1902. About 100 students are accepted to study fully-funded at Oxford each year. According to the Rhodes Trust, "Rhodes Scholarships are for young leaders of outstanding intellect and character who are motivated to engage with global challenges, committed to the service of others and show promise of becoming value-driven, principled leaders for the world's future."

Editor's note: Billy Woltz is a staff reporter for The Tech.

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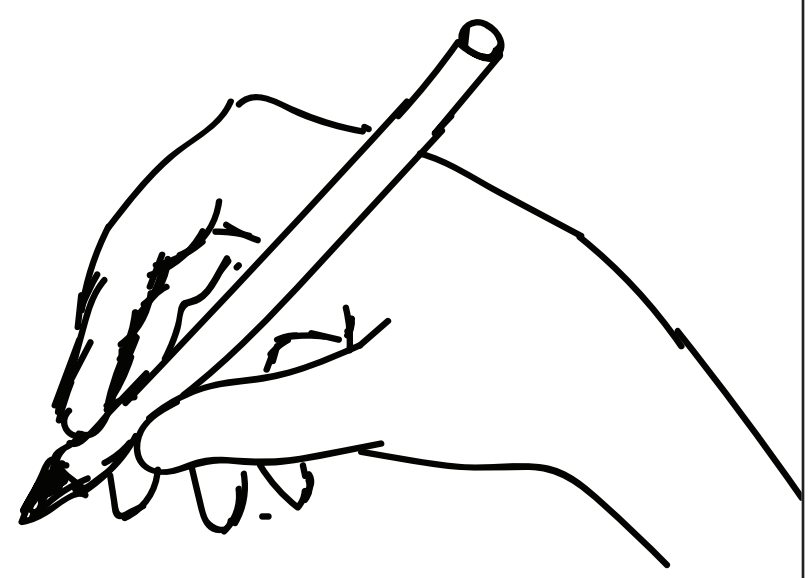


VIDEO GAME REVIEW

Goofs and ghosts galore

Light-hearted and spook-filled fun for the casual gamer

By Matt Farejowicz

Luigi, Mario, Princess Peach, and the Toads start in high spirits as they journey toward the Last Resort Hotel. Invited as VIP guests, this story sets up with a nice change of pace from the normal line of Mario gang adventures. However, things go awry, as they always tend to do, and we find ourselves with Luigi left alone, his friends trapped, and a multitude of mad ghosts. With no other choice, it's up to Luigi to free his friends and save the day. The *Luigi's Mansion* series has always offered a neat detour from the gameplay and story players might expect from the Mario franchise, and *Luigi's Mansion 3* expands upon this in even more new and fun ways. The game starts with extremely high energy and offers colorful characters and settings throughout. Unfortunately, this initial energy falls off fairly quickly, and some of the gameplay and mechanics fall short as a result.

Luigi's Mansion 3 pulls as much as possible from its focus on Luigi, the lesser known Mario brother. The player finds themselves in the shoes of a character who is a protagonist by circumstance, not by choice. Luigi is constantly peeking over his shoulder, hesitating to open doors, or running in fear. The emotions of our reluctant hero are always crystal clear thanks to lively character models and animations. Right off the bat, it is hard not to root for Luigi's success.

Of course, Luigi is not the only character in the story. From a visual standpoint, the friends and foes that the player meets along the way have equal attention to detail. When first introduced to the generic ghost enemy, they roll up their non-existent sleeves and holler to their buddies, in preparation for the tumble with Luigi. Every floor of the hotel offers a unique ghost boss with a quirky intro and thematic outro. Take Amadeus Wolfgeist for example, who offers a classy bow to the crowd before his defeat.

However, this degree of detail in the character models and animations leaves a little to be desired in terms of depth. Long-time fans of the series will remember how the original *Luigi's Mansion* provided backstories for each boss and formed connections between them. In this latest installment, bosses serve no other purpose than an obstacle to progression. Each floor's theme, setting, and boss is independent of the last. So even though the story is linear, it feels awkwardly disjointed at times as the game prioritizes zaniness over continuity. There is no real reason for a floor to contain a literal ocean, but there is no denying that it looks neat.

With so much attention directed to visuals, the gameplay also suffers a bit. Luigi's main defense against the ghosts is the Poltergust G-00, a super-powerful vacuum that can suck up ghosts, gold, and everything in between. While each floor offers a unique boss ghost to fight against, there are only about five types of ghost mobs to meet along the way to the boss of each floor. It can become quite repetitive to fight the same enemy over and over. On a larger scale, the game falls into a tiresome gameplay loop. The player traverses a floor, defeats the ghost boss, gets a key to the next floor, and repeats. At one point, the cycle is broken when an unexpected boss appears to steal the key, but the player is forced to chase the boss through old floors in a drawn-out fight sequence. And to make matters worse, this boss reappears later in the game, in the exact same fashion, with the exact same fight sequence. The gameplay can start to feel secondary to the cutscenes and settings.

Luigi's Mansion 3 also introduces the Gooigi mechanic, in which Luigi can summon a goo version of himself to help with puzzles or combat. Novel for the first few floors, the game quickly runs out of unique ways to make use of Gooigi. Overall, the bulk of the excitement is thrown at the player at the start of the game and starts to fade along the way. Late in the game, Luigi is sent on a mission to pick up a new part for his Poltergust G-00 in order to unlock a new ability. I was eager for this new ability to be used occasionally throughout the rest of the game, but it was used exactly once and then never seen again. This sort of situation is fairly representative of the game, wherein the effort required to figure out a solution or progress forward is not worth the effort.

Luigi's Mansion 3 starts big and grand: the situation is dire, there are many new mechanics to master, and the puzzles are fun and fresh. Unfortunately, the gameplay diversity is expended fairly quickly, and players find themselves in a familiar situation with a new skin all too often. That being said, the theming and visuals are incredibly strong throughout and do their best to help engage the player. Put together with the focus on the often unacknowledged character Luigi, *Luigi's Mansion 3* has the potential to offer a frighteningly fun time.

★★★☆☆

Luigi's Mansion 3

Developed by Next Level Games

Published by Nintendo

Available on Nintendo Switch

THEATER REVIEW

The Iliad according to your bitter, well-oiled uncle

In this nearly one-man show, O'Hare trods well-worn storylines with an admirable energy

By Alexandra Sourakov
STAFF WRITER

Pulling off a two-hour one-man show is no mean feat, requiring endurance, a compelling character, and/or a killer storyline. When the storyline is one of the most familiar in existence, every other aspect of the production needs to pull its weight. The title *An Iliad* suggests that it will be a take on Homer's epic, perhaps an unorthodox one, hopefully an insightful or surprising one.

Previous adaptations of *The Iliad* serve a range of purposes and reflect their contemporary context. For example, several recent ones (the Hollywood film *Troy*, the comic book *Age of Bronze* and Colleen McCullough's excellent novel *The Song of Troy*) attempt to inject more realism into the story by removing godly intervention, unlikely coincidences, and far-fetched plot points. Adaptations from the Middle Ages might find a way to insert discourses on courtly love, as in the story of Troilus and Cressida (de Sainte-Maure's "Roman de Troie," Chaucher's *Troilus and Criseyde*). Giraudoux's *The Trojan War Will Not Take Place* harkens to pre-WWII appeasement. The plays of Greek Antiquity (*The Libation Bearers*, *Iphigenia at Aulis, Agamemnon*, etc.) make parallels to the Peloponnesian War.

JOHN MARCUS

Denis O'Hare stars in *An Iliad*.

Peterson's production does little more than retell the story of the Trojan War until the death of Hector with acerbic, world-weary injections of general anti-war rhetoric. The narrator (Denis O'Hare) portrays a sort of vagabondish, itinerant storyteller who witnessed firsthand the events he is recounting. His clothes appear disheveled and it seemed as though he had procrastinated on bathing. As he gets warmed by the tale, he sheds layer after layer, cracking open his suitcase and a bottle of booze. His attitude is of one who has seen the world and has ever since been disappointed. Rather than going for sincere or expansive storytelling, O'Hare goes for a more derisive tone reminiscent of an intoxicated high school history teacher at a bar. He heckles the audience and points to individuals when he wants to make a point. He was successful in rousing laughter throughout the show, but whether from humor or discomfort, I was not always sure.

There is something magnetic about O'Hare's pacing and intonation. It's not what he's saying that makes you want to watch him, but the way he stops and starts abruptly and prowls around the stage. You prick up your ears in a reaction to something unpredictable, something not quite safe. He is unstable, and yet you believe he must have seen the horrors he winces at, or else where does that crazed, haunted look come from?

There is little to no set design to speak of; rather, all manner of lighting equipment and theatrical paraphernalia are scattered in the background, as if the narrator literally strolled onto the stage while the stage manager wasn't looking. What makes it not exactly a one-man show is the appearance of a single musician in the wings of the stage: a young lady puckishly playing a bass. The narrator often gestures to and addresses her, and the impression is that of a crutch. It is not clear whether she is meant to be the muse he invoked at the beginning of his tale. If so, the dependent, almost helpless looks he gives her could take on a more interesting dimension.

O'Hare's performance is strong, and the interplay between the musician and the storyteller is a creative touch, but the material does not feel sufficiently novel in an era in which storytelling is no longer one of the main forms of entertainment. Anti-war sentiment permeates and adds unique elements to the production, like having the narrator reciting a breathless litany of almost every major conflict since the Conquests of Sargon, but it is not a cohesive enough thesis to carry the production to a higher plane.

An Iliad

Directed by Lisa Peterson

Written by Denis O'Hare and Lisa Peterson

Emerson Paramount Center

Nov. 20–24

DID YOUR MIT ESSAYS GET YOU IN?

The Tech is collecting successful application essays (hint: yours!).
Email your pieces to cl@tech.mit.edu!

Thanksgiving

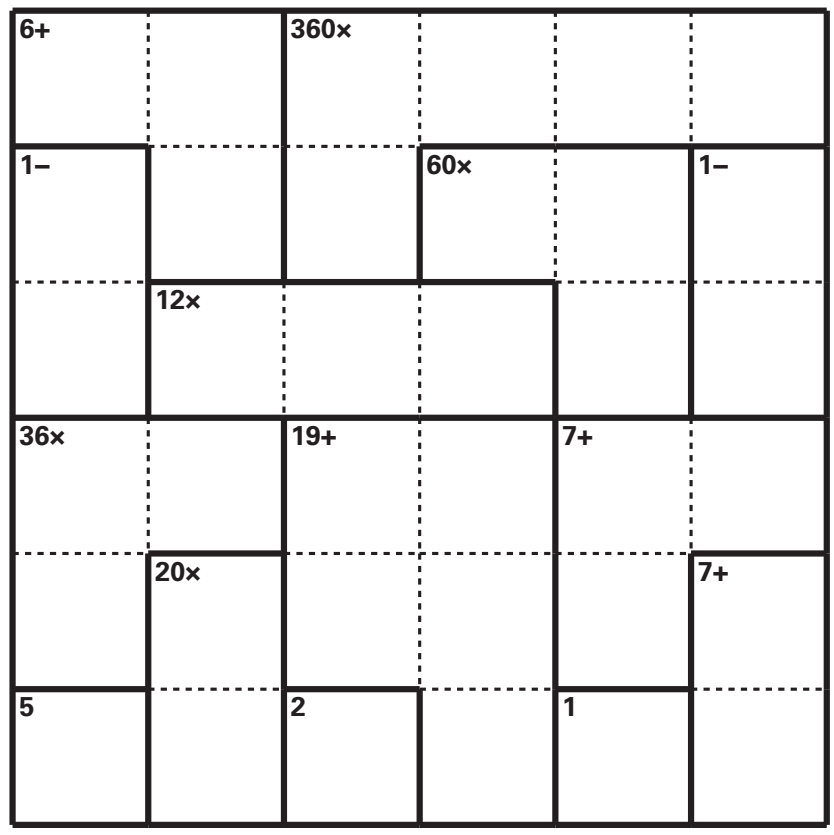
Solution, page 8

1				5			9	
	5		1		4		2	7
6	8		3				4	
	3	4	8		1	5	7	
	1				7		3	8
8	2		9		3		6	
	9			8				4

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Black Friday

Solution, page 8



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–6. Follow the mathematical operations for each box.

Concert in The Park by Brad Wilber

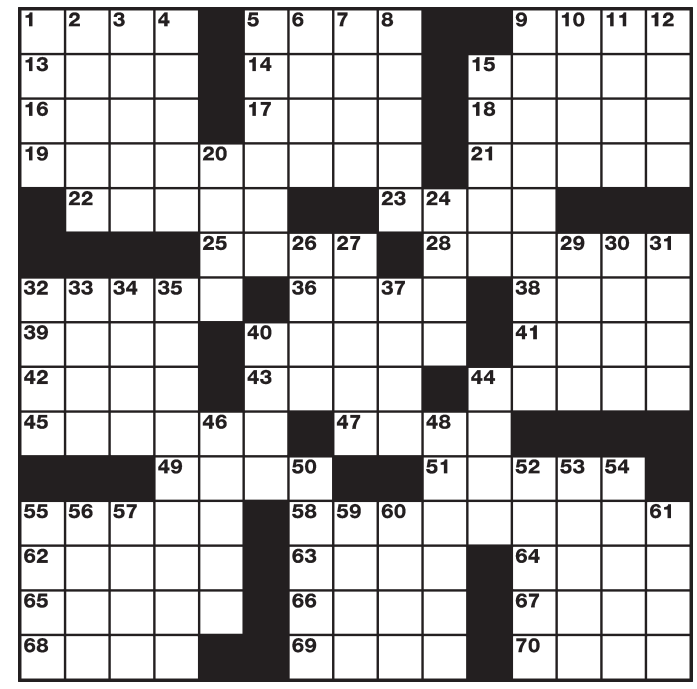
Solution, page 8

ACROSS

1 Papa's wife
5 Strike with an axe
9 With no decoration
13 Milky gemstone
14 Path to bowl on
15 Strong winds
16 Western defense alliance
17 Frequently
18 Ready to serve from a keg
19 Ensemble playing the concert
21 Decorate
22 Starts to unfreeze
23 Trips around a track
25 What contact lenses cover
28 Shared again, as stories
32 Larger-than-life movies
36 Molecule component
38 Solo at an opera
39 Folded Tex-Mex food
40 Studies hard
41 Seagoing military force
42 River near Shakespeare's home
43 Prefix meaning "against"
44 Does nothing
45 Any source of mortgage money
47 Mix with a spoon
49 Computer manual reader
51 Football team leader
55 Frisbee shapes
58 Spectators at the concert
62 Lessen gradually
63 Des Moines' state
64 Ticklish red Muppet
65 Office notes
66 Walk through mud
67 Make preparations
68 "Person-who" suffix for prank or trick
69 "So what __ is new?"
70 2,000-pound measures

DOWN

1 Prefix meaning "one"
2 In separate places
3 Boxing bout
4 Hawaiian greeting
5 Elegant and excellent
6 Sentry's "Stop!" order
7 __ about (roughly)
8 Piece of a blossom
9 Platform for the concert
10 Female choir voice
11 __-view mirror (windshield attachment)
12 Cable sports channel
15 Rant and rave
20 Mothers of lambs
24 Limbs inside sleeves
26 Deserve to receive
27 Numerical data
29 Word-of-mouth
30 "As I __ and breathe!"
31 Septet in a week
32 And others: Abbr.
33 Cover with asphalt
34 Clickable desktop image
35 Person leading the concert
37 Forget to include
40 Show compassion
44 Waffle __ (kitchen appliance)
46 Three letters in "discuss"
48 Ancient period of growing glaciers
50 Pay increase
52 Skillful
53 Larger cousin of a viola
54 Macho dude
55 Beaver-made blockades
56 Skeptical comment
57 Identical
59 Bridge-crossing fee
60 "Terrible" infant stage
61 Boys in a family



MIT Doodles by Raphi Kang

FUNFUNFUNF

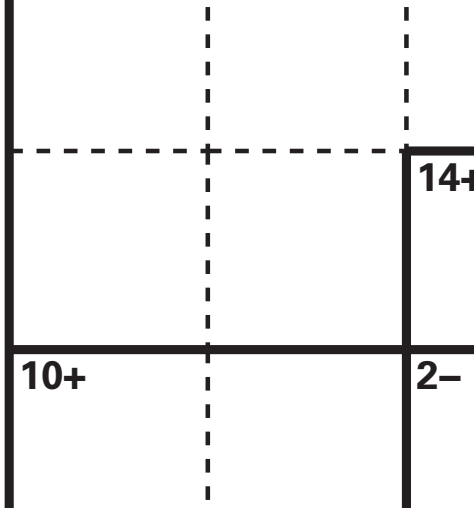
FUNFUNFUNF

Capitalism

Solution, page 8

27+			30+			5	24×	
	18×			192×		21×		
	48×				4×		40×	3
27×		2–		2		1		6
5–	24×			70×		384×		36×
	24+						6	
480×			7×		135×		72×	
		14+		2–		18×		7
10+		2–					35×	

Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1–9. Follow the mathematical operations for each box.



by Jorge Cham

FUN FUN FUN

Sponsored by the Office of the Chancellor
and the Office of the Provost

4th

You're Invited To:

BIRTHDAY

MIND HAND HEART

Monday, December 2, 2019 12-2PM
Bush Room 10-105

Join us for ice cream, cupcakes,
giveaways, and more!

bit.ly/mindhandheartbirthday

Solution to Concert

from page 5

M	A	M	A		C	H	O	P		B	A	R	E
O	P	A	L		L	A	N	E		G	A	L	E	S
N	A	T	O		A	L	O	T		O	N	T	A	P
O	R	C	H	E	S	T	R	A		A	D	O	R	N
	T	H	A	W	S			L	A	P	S			
				E	Y	E	S		R	E	T	O	L	D
E	P	I	C	S		A	T	O	M		A	R	I	A
T	A	C	O		C	R	A	M	S		N	A	V	Y
A	V	O	N		A	N	T	I		I	D	L	E	S
L	E	N	D	E	R		S	T	I	R				
			U	S	E	R			C	O	A	C	H	
D	I	S	C	S		A	T	T	E	N	D	E	E	S
A	B	A	T	E		I	O	W	A		E	L	M	O
M	E	M	O	S		S	L	O	G		P	L	A	N
S	T	E	R			E	L	S	E		T	O	N	S

Solution to Black Friday

from page 5

2	1	5	6	4	3
4	3	1	2	6	5
3	2	6	1	5	4
1	6	4	5	3	2
6	5	3	4	2	1
5	4	2	3	1	6

Solution to Thanksgiving

from page 5

1	7	2	6	5	8	4	9	3
4	6	3	2	7	9	8	5	1
9	5	8	1	3	4	6	2	7
6	8	7	3	2	5	1	4	9
2	3	4	8	9	1	5	7	6
5	1	9	4	6	7	2	3	8
8	2	1	9	4	3	7	6	5
3	4	5	7	1	6	9	8	2
7	9	6	5	8	2	3	1	4

Solution to Capitalism

from page 7

7	4	2	9	6	8	5	3	1
5	2	9	7	4	6	3	1	8
9	6	4	2	8	1	7	5	3
3	9	7	5	2	4	1	8	6
6	3	1	8	5	7	4	2	9
1	7	5	3	9	2	8	6	4
8	5	3	1	7	9	6	4	2
4	1	8	6	3	5	2	9	7
2	8	6	4	1	3	9	7	5

Solution to Monday

from page 6

1	3	5	9	4	2	8	6	7
9	2	4	8	3	1	7	5	6
2	4	6	1	5	3	9	7	8
3	5	7	2	6	4	1	8	9
5	7	9	4	8	6	3	1	2
6	8	1	5	9	7	4	2	3
8	1	3	7	2	9	6	4	5
7	9	2	6	1	8	5	3	4
4	6	8	3	7	5	2	9	1

Upcoming Sports Events

Saturday 30th

Women's Basketball
vs. Bowdoin
2:00 p.m.

Capture the Moment

Join Photo at The Tech
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