

# Congratulations all around!

We have lots to celebrate in this issue, starting with our Halloween costume contest winner, Apollo Sun, who, true to his name, took off like a rocket with the voting and never looked back. Congratulations are in order, too, for our Bladesmithing team who recently took first place in the IMS 2020 Metallographic Contest, and to John Allison and the PRISMS Center for receiving a third term of funding from DOE. While we're at it, we celebrate the lifting of the stay-at-home order today, as well as everyone who has or is planning to vote today! Let's get to all the good news...

Questions, comments or ideas for TeamMSE? Contact Kristen at <a href="mailto:kristen@umich.edu">kristres@umich.edu</a>.

We'd love to hear from you!



**SPOOKY SCIENCE**. Brian lezzi (Ph.D. candidate, Shtein group) pours liquid nitrogen into a carved pumpkin while Duncan Greeley (Ph.D. candidate, Allison group) live streams it during a virtual outreach event on Monday with 7th



### Stay-at-home order is lifted!

Yesterday the Washtenaw County Health Department announced that it was lifting the two-week public health emergency stay-in-place order for University of Michigan undergraduate students. The order is not extended and expired today (Nov. 3) at 7:00 a.m. The proportion of local COVID-19 cases associated with U-M has decreased, and importantly, this reduction in new, university-associated cases has allowed case investigators and contact tracers to catch up. Overall, though, the number of cases in Washtenaw County remains high and weekly test positivity has increased to nearly 4%.

Click here for U-M's COVID-19 Dashboard

## North Campus Mobile Food Distribution Wednesday, Nov. 4

UM's Maize & Blue Cupboard (MBC), the College of Engineering, and Ann Arbor-based Food Gatherers will host another mobile food distribution program this Wednesday (11/4) to make MBC resources more accessible to individuals living on North Campus while staying within COVID-19 safety and health guidelines. The mobile distribution will be Wednesday, November 4, from 2-4 p.m. in the northwest Parking Lot 10, located along Hubbard Road on North Campus. Trucks will deliver food items to the lot and shoppers can pick up pre-bagged vegetables and fruits as well as non-perishables pre-boxed for safety.

<u>Reservations</u> are required to participate in the mobile distribution and can be made on the Maize & Blue Cupboard website. Volunteers and donations of resources are also needed.

## If you're not feeling well

It is very important that U-M students who feel ill or are concerned about possibly having contracted COVID-19 get their testing done **through UHS**. It's fast and easy.

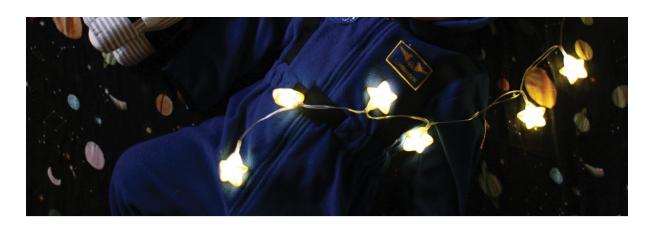
## If you're feeling overly stressed, help is just a click away.

One of the biggest tolls this pandemic is taking is on mental health. If you are struggling with stress and/or having a hard time staying positive, remember there are resources available that are ready to help you **right now**:

- **SilverCloud:** An <u>interactive mental health portal</u> that can help you sleep better and manage stress anxiety and depression.
- C.A.R.E. Center: The <u>central hub to assist engineering students</u> through a variety of challenging circumstances, both inside and outside of the classroom.

# **CONGRATULATIONS** to all our Halloween costume contest winners!





#2

**Anya and Enya Qi**Submitted by Liang Qi/Faculty



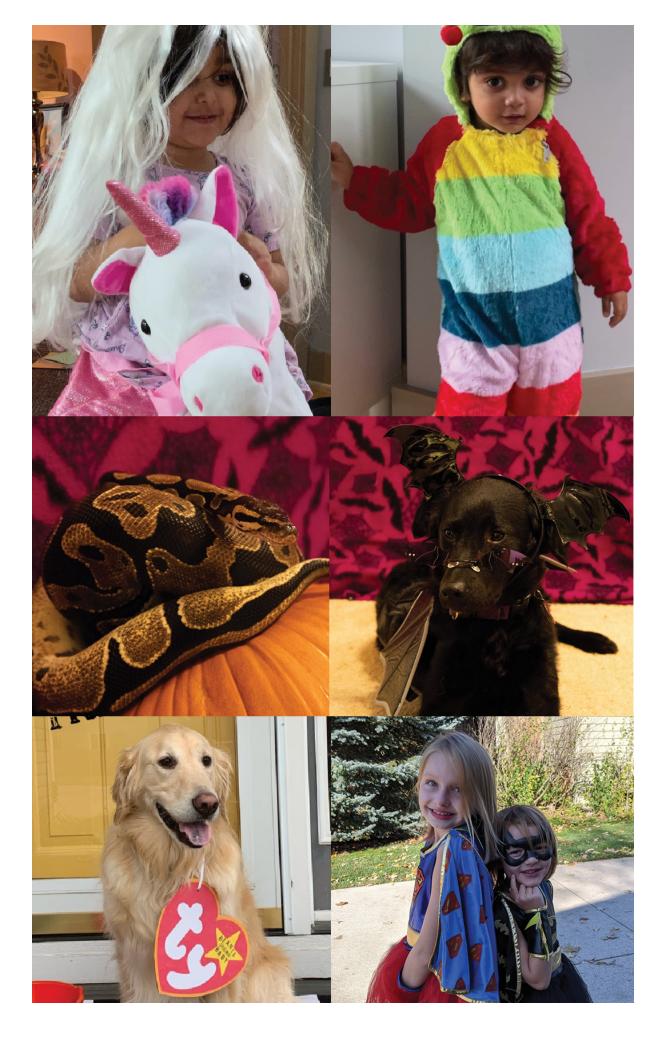
# #3 Hocus Pocus trio Submitted by Kathy Kuhn/Staff



## Thank you to ALL our contest participants! From left

to right starting at the top: Anya Qi, submitted by Assistant Professor Liang Qi; Wilma the Cowgirl, submitted by Alex Kate Halvey (PhD candidate); Chucky and Ninja (a.k.a. Olivia and Ethan), submitted by Tina Longenbarger (staff); "Scuba Doo," submitted by Kristen Freshley (staff); Elsa Unicorn (a.k.a. Anaya Tuteja) and Caterpillar (a.k.a. Sanay Tuteja), submitted by Associate Professor Geeta Mehta; Jeff the Python and Reggie, submitted by Aaron Gladstein (PhD candidate); Maizey the Beanie Baby, submitted by Renee Hilgendorf (staff), and Supergirl and Batgirl (a.k.a. Tegan and Lark), submitted by Ellen Kampf (staff).







# **Bladesmithing Team takes first place**

Congratulations to the Bladesmithing team for winning the IMS 2020 International Metallographic Contest! According to member Karen Ni, the team's submission, "A Tantolyzing Analysis of Differential Hardening" included work from last year where they had analyzed the effects of differential hardening on a forged tango blade.

"We forged our blade out of W2 steel, which was then normalized at different stages, heat treated with clay, and guenched," Ni said.

Samples of each step were analyzed using a scanning electron microscope (SEM) and optical microscope to observe the microstructures present at each stage.

"We saw that the spine of our blade that was heat treated with clay contained a lamellar pearlite structure that provides flexible properties," Ni continued. "Towards the edge of the blade, the structure transitioned to needle-like martensite, which contributes to hardness."

Team members include: Jackson Eilers (captain), Grant Saxman, Aidan Charmley, Karen Ni, Jeffrey Tschirhart, Alexander Shaw, Elizabeth Eachus, Kevin Wang, Tyler Lindemann, and Wahaj Ansari. The team is advised by Tim Chambers.



DOE Renews PRISMS Center for third term with \$7M, bringing total funding to \$26M through 2023



Since 2012, the science and scholarship of the PRISMS Center has been widely recognized for its excellence, which the recent DOE funding validates.

Read an interview with PRISMS Center director John Allison.





# MMS webinar this Friday: Tekton

A representative from Tekton will be our

# Seminar speaker this Friday: ChE's Bryan Goldsmith

Asst. Prof. Bryan Goldsmith of U-M ChE will present "Finding descriptors in materials data using interpretable 'transparent box' machine learning" this **Friday, Nov. 6, at 10:30 a.m**. Zoom link:

https://umich.zoom.us/j/91543863223

Passcode: 595938

guest this **Friday**, **Nov.** 6 at **11:30 a.m.** As always we will be raffling off Grubhub coupons! The Zoom link is <a href="https://umich.zoom.us/j/91970966244">https://umich.zoom.us/j/91970966244</a>





# Christian Greenhill PhD Defense - Nov. 10

#### **MRS Virtual Conference**

The Materials Research Society (MRS) virtual conference, Nov. 27-Dec. 4, is open to students to attend. Click **here** for registration information.



#### **DEI Student Allies Mailbox**

New for students! Share your feedback on the DEI program and/or ask the DEI student allies questions: https://forms.gle/98uKGHPbcAMzCF3B7





We're looking for some cool, creative "science as art" images to use in a variety of MSE marketing materials, including our 2021 calendar! Please submit your images (with explanatory caption and advisor/course name) to Kristen: **krisfres@umich.edu** by **Tuesday, Nov. 10.** If we pick your image, you will win \$100! High-resolution images only. ALL MSE students and postdocs are welcome to participate BUT, please note: *Submissions must be based on research conducted at U-M.* 



#### **VOTE! VOTE! VOTE!**

TODAY'S THE DAY! If you haven't already, please make sure to vote! Click <a href="here">here</a> for last-minute election information. Polls close tonight at 8:00 p.m.

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