



Welcome back from break! Hope everyone had a relaxing break and feel rested and ready for the sprint that will be these last two months of the semester! In today's issue we bring you some special announcements, upcoming events you won't want to miss, and student awards and faculty news.

The next issue of TeamMSE will be published Monday, March 27 (We're skipping TMS week). If you have anything you'd like to submit, please send it to Kristen Freshley at krisfres@umich.edu by Sunday, March 26.

MSE Outreach Team travels to Grand Rapids

On Wednesday, January 25, the MSE Outreach Team visited Catholic Central High School in Grand Rapids, Mich. to conduct a lesson on the materials science of polymers. Hands-on activities including heating and shaping polyethylene to molds while discussing 1) how this was possible because the bonding between polymer chains are relatively weak secondary bonds, and 2) how this relates to the recycling of plastics. The students were then able to synthesize hydrogels using sodium alginate and calcium chloride solutions. The lesson wrapped up with a discussion of how hydrogels can be used in various applications including eye contacts and pharmaceutical capsules. If you are interested in participating in future outreach events, please contact [Joshua Cooper](#).



Top: Joshua Cooper begins the lesson on polymers at Catholic Central H.S. **Above left:** Outreach team members Ben Justus, Gillian James, Joshua Cooper, Gabi Grey, and Devon Kleeblatt. **Above right:** Gabi Grey displays polyethylene molds made by the students.

Special Announcements

GRADUATING SENIORS: PICTURE DAY IS THIS WEDNESDAY, MARCH 8!

Class of 2023: If you are graduating in April, August or December, please have your photo taken this **Wednesday, March 8** in the **2nd floor Student Lounge, 10-11 a.m.** or **3-4:00 p.m.** Please wear formal attire (jacket and tie or nice blouse/sweater). Keep in mind these pictures will hang on the walls of Dow in perpetuity:-). If you can't make it on Wednesday, please contact [Kristen Freshley](#) to arrange a time to take an alternate photo.

GRADUATE RECRUITING VISITS MARCH 10 AND MARCH 17

Just a reminder, there will be no MSE890 seminars this Friday, March 10 or March 17 due to graduate recruiting activities on both days.

MSE SAFETY UPDATES/REMINDERS

1) During our February casting event, a student suffered burns from an accidental release of pepper spray from a self-defense canister on their key ring. The student is fine with no lasting injuries from the exposure. While the release occurred in the Van Vlack Lab, it was unrelated to any activities being conducted in the lab.

2) **A note to those who carry pepper spray:** Please be careful! This burn was very painful and was concerning when we did not know what the source was. We would like to commend the staff who quickly rinsed the burn and transported the student to receive medical care.

3) A reminder that for any safety incidents within the department, two reports must be filed, [Work Connections](#) and [EHS incident report](#).

WINTER BREAK EXTENDED IN 2024!

The U-M Board of Regents recently voted to extend winter break in 2024 by a week. The 2024 winter term will begin on **January 10, 2024**. Final exams next year will end May 2, 2024 and commencement activities will move from the last weekend in April to May 3-5, 2024. The fall 2023 term will not be affected.

Upcoming Events

MMS Luncheon speaker this Friday, March 10: Ford

When: Friday, March 10, 12:30-1:30 p.m.

Where: DOW 1013

What: Ford will be participating in this week's luncheon, with food from Noodles and Company.



MMS Board Game Night - Monday, March 13

When: Monday, March 16, 7:30 p.m.

Where: 3315 Mason Hall

What: Game night! Some board games will be provided, but if you have a game you want to



play, please bring it.

Hide, Fight, Run Training - Tuesday, March 14



When: Tuesday, March 16, 12:00-1:00 p.m.

Where: Pod Room (3158 Dow)

What: The monthly MSE safety committee is hosting a training session of the active shooter protocol **Run, Hide, Fight**. MSE faculty and staff are encouraged to join this presentation. Students will be welcome if seating allows. If demand dictates it, an additional presentation will be scheduled.

MSE/MMS Town Hall - Thursday, March 16



When: Thursday, March 16, 12-1 p.m.

Where: 1303 EECS

What: Join us to give MSE chair Liz Holm and UG program advisor Steve Yalisove feedback about the MSE undergraduate program. This event is intended for MSE-declared sophomores, juniors and seniors **ONLY**. Please [RSVP](#) by **THIS FRIDAY, MARCH 10**. Boxed lunches will be provided to registered students.

Come celebrate National Pi Day with (what else)...pie!

When: Tuesday, March 14, 1:14 p.m. - 3:14 p.m.

Where: Pod Room (3158 Dow)

In honor of National Pi Day, come grab a slice of pie, courtesy of MSE faculty and staff! All MSE students welcome!

3.14159265358979323846264338327950288419716
939933751058209749445923078164062862089986
280348253421170679821480865132823066470938



Come join us to celebrate
 π Day
with...
(what else?)
PIE!

TUESDAY
3.14

DOW #
3158

1:14 p.m.-
3:14 p.m.

Prof. Bigelow's 100th birthday celebration March 16!



Join us for what we believe will be an MSE first: a 100th birthday party for faculty emeritus Wil Bigelow!

When: Thursday, March 16, 2-4:00 p.m.

Where: The Blue Lounge in GG Brown (Room #1280)

Mark your calendars and plan to stop by for a piece of cake!

U-M-OSU Alumni & Friends Mixer @TMS March 20



Monday, March 20, 7:00-10:00 p.m.

If you will be attending TMS2023 in San Diego, please join us for our annual fun social event with OSU - voted the hottest ticket at TMS last year! The event will be held at Level 9 Rooftop Bar (atop Hotel Indigo), just a 12-min. walk from the Convention Center. Come mix and mingle with colleagues while taking in beautiful views of the Gaslamp Quarter and Petco Park! [Register by March 15.](#)

Student News

Lim and Moy win Rackham Predoctoral Fellowships



Congratulations to **Juwon Lim** and **Alexandra (Alex) Moy**, who recently received Rackham Predoctoral Fellowships for 2023-24. The prestigious fellowship supports outstanding doctoral students working on dissertations that are unusually creative, ambitious, and impactful. The award includes a stipend, and covers tuition and required fees for twelve months. [Read more.](#)

Zoe Hu and Samson Adler earn CoE awards



Congratulations to MSE undergraduates Zoe Hu and Samson Adler for winning 2023 Leaders & Honors awards from the College of Engineering! Zoe (pictured above left) was recognized with a Distinguished Academic Achievement Award while Samson (above right) earned the George M. Landes Prize for Technical Communication. Zoe and Samson will officially receive their awards at the Leaders & Honors Awards Brunch on Sunday, March 19. Way to go, Zoe and Samson!

Faculty News

Ashwin Shahani new UG committee chair

Effective last month, **Associate Professor Ashwin Shahani** is the new chair of the Undergraduate Committee, which is charged with the general oversight of the undergraduate program.

"I am thrilled to be the chair of our undergraduate program," Shahani said. "As chair, I will focus on three areas: recruitment of new MSE students, development of new courses at the



undergraduate level, and outreach to under-served communities in lower Michigan."

Sun named Dow Corning Assistant Professor

Wenhao Sun has been named the Dow Corning Assistant Professor in the Materials Science & Engineering Department. He will hold the position for a three-year term, until December 31, 2025. Sun says funding from the professorship will enable his group to pursue high-risk, high-impact research projects related to fundamental synthesis and process science, which will be critical for ushering in the next age of advanced materials manufacturing.

[Read more.](#)



Job opportunities

Apple looking for materials engineer



Position: Materials Engineer - Surfaces/Thin films

Education Requirement: A minimum of B.S. in Materials Science, Metallurgy, Physics, Chemistry, or a related field is required. M.S. or Ph.D. is preferred

This position within the Alloy Engineering team will directly support hardware teams and lead development projects related to thin-film processing, including Physical Vapor Deposition (PVD) and materials applied to Apple alloy substrates.

Responsibilities will include identifying, developing, and applying new processing solutions for Apple products, as well as supporting qualification of new processes, developing engineering specifications for thin-films, and supporting failure analysis on existing processes. The candidate will have experience in the materials science and processing of thin-films, and in developing such processes, preferably with a background in materials engineering, surface science, physics or chemistry with a particular emphasis on understanding relationships between materials structure and properties. An understanding of manufacturing, operations, process qualification and process control is also important for this position. Experience with a variety of surface analysis and characterization techniques and equipment is essential. The successful candidate must possess the ability to manage multiple projects simultaneously with competing priorities. The candidate must be able to travel to visit Apple suppliers in Asia. **For more info, click [here](#).**

Opportunities for PhDs/Postdocs

NRC RESEARCH ASSOCIATESHIP PROGRAMS

POSTDOCTORAL AND
SENIOR LEVEL RESEARCH
OPPORTUNITIES

APPLICATION OPENS:
MARCH 1, 2023

APPLICATION DEADLINE:
MAY 1, 2023 AT 5PM ET

NATIONAL ACADEMIES Sciences
Engineering
Medicine



The National Academies of Sciences, Engineering, and Medicine administers postdoctoral and senior research awards at participating federal laboratories and affiliated institutions at locations throughout the U.S. and abroad. They are seeking highly qualified individuals who hold, or anticipate earning, a doctorate in a variety of fields of science or engineering. Stipends range from \$45,000-\$97,490+ (based on experience). The next application deadline is May 1. For more information, visit www.nas.edu/rap



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