



Welcome to TeamMSE Vol. 8 - December 6

If you have information you'd like to share with the community in our next issue, due out on Dec. 20, please email [Kristen Freshley](mailto:krisfres@umich.edu) at krisfres@umich.edu by Sunday, Dec. 19.
Any and all suggestions/comments regarding TeamMSE are welcome, too!

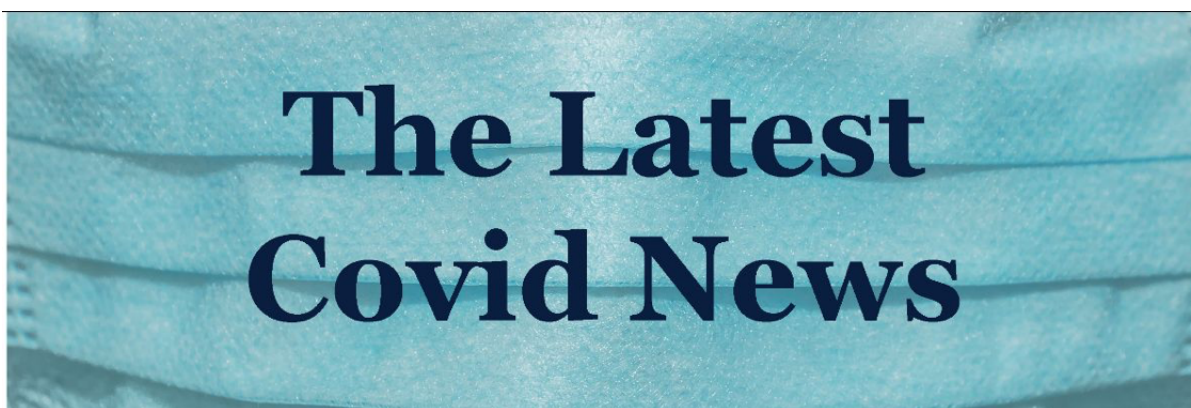
Scenes from last Friday



Veronica Caro (left) and Vaidehi Menon (right) chat with MSE admin assistant Shelley Fellers (center) at the most recent Coffee and Conversation in Tishman Hall. Shelley recently implemented serving a smorgasboard of snacks at the weekly event, which is very appreciated. GSC sends you a HUGE thank you, Shelley!



Assistant Professor Abdon Pena-Francesch (left) listens to Marisa Perez explain her group's project, "Sustainability of Recycling Deposited Bottles into rPET to Reduce Virgin PET Consumption," during MSE481's poster session on Friday in 133 Chrysler. Each of the class's nine projects focused on a UN Sustainable Development Goal, covering a specific solution to a challenge that included background, life cycle assessment, an eco-audit, and a brief techno-economic analysis.



Fortunately, flu cases on campus have moderated from a couple weeks ago. But with the inevitable arrival of the Omicron variant looming, it is as important as ever to remember to wear a face covering, make good decisions when interacting and stay home if you're feeling sick. Let's be safe and finish the semester strong!

Covid booster shots strongly advised

The CDC now recommends that everyone ages 18 and older should get a booster shot as soon as they are eligible—six months after completing either the Pfizer or Moderna mRNA vaccines or two months after the single-dose J&J vaccine. [UHS](#) and [Michigan Medicine](#) are scheduling booster shots (in addition to first and second doses), and UHS and Kroger Health are partnering on [upcoming clinics](#) to provide COVID-19 and flu vaccination at the Indoor Training Center at 1150 State St. U-M is currently following CDC guidelines that recognize individuals who have completed a two-dose or single-dose vaccine series as [fully vaccinated](#) – so a booster, while recommended, is not required under our vaccination policy at this time. This may change as CDC recommendations change.

Omicron variant: U-M is on it

U-M health experts are taking steps to monitor and prepare for the Omicron variant, which has now been detected in at least 18 states (not Michigan...yet). It may take a couple weeks to understand the impact of the variant – including its clinical severity, how fast it spreads, and the efficacy of vaccines and therapeutics – but in the meantime Michigan Medicine is sequencing viral samples from our community and closely monitoring global conditions.

ResponsiBLUE will now show vaccination compliance

[Starting January 3](#), individuals out of compliance with U-M's COVID-19 vaccination policy will have a RED X appear on their overall ResponsiBLUE App screen.

CDC completes its investigation into U-M flu outbreak

The [CDC announced its findings](#) after looking into the outbreak in Ann Arbor of 745 flu cases — nearly all (99 percent) among the student population — between Oct. 6 and Nov. 19, the first significant influenza activity in the United States since March 2020.



MSE Food Drive underway: Please donate!



This holiday season, please consider supporting those in our local community who are struggling with food insecurity and hunger. There are bins for non-perishable food donations in the MSE office printer room (**DOW 3074**) and in the MSE undergraduate advising office (**DOW 2146**). Monetary donations are also greatly appreciated by Food Gatherers and can be made here: [MSE Food Funds Drive](#).

The food drive will conclude at the **MSE Holiday Party** so wear a funky holiday sweater and bring some non-perishable food donations for a **chance to win UM MSE swag!** A donation of any size will earn one entry into the raffle. If you donate in the DOW collection bins before the holiday party, please record your name and email on the sheet next to the bin. If you donate online, please email fwissu@umich.edu if you would like to be entered in the raffle.

Mohsen Taheri Andani defense Dec. 14

Mohsen Taheri Andani, a member of the Misra group, will present "Investigating Microstructural Effects on Hall-



Petch Relationship in Mg-4Al Alloy" **Tuesday, Dec. 14** at 9:00 a.m. in 2540 GG Brown Grand Conference Room, or via Zoom: umich.zoom.us/j/91485131905
Passcode: EBSD
Best wishes, Mohsen!

Last chance to watch: link to VV Lecture with Stan Whittingham expires Dec. 26



Just a courtesy note that the link to the video of Nobel laureate Stan Whittingham's Van Vlack Technical Lecture in October, "The Lithium Ion Battery, from a Dream to Readiness to Take on Climate Change," will expire on December 26. Watch the lecture [here](#).

Alumni News



We were deeply saddened to learn of the passing of MSE alum **Gerald "Jerry" Madden** on Nov. 26. In addition to being an active member of the MSE External Advisory Board, Jerry was also the 2018 recipient of the MSE Alumni Merit Award. To learn more about his impactful life and career, click [here](#).

Job/Research Opportunities

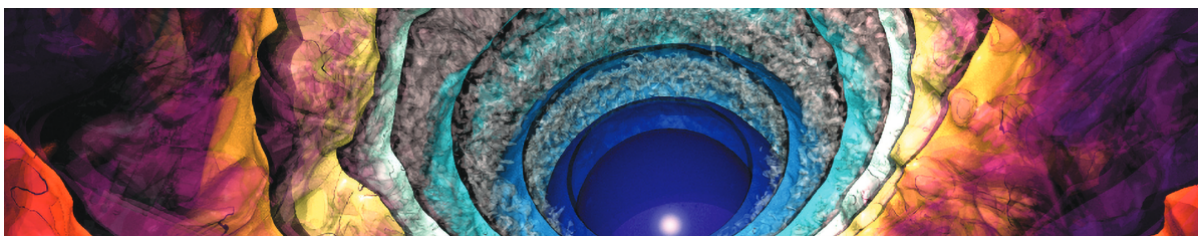
Polaris accepting applications now for Summer 2022 internship

Polaris is accepting applications from undergraduates for a **Materials Engineering intern** for Summer 2022. Their ideal candidate has:

- an interest in working with metals in a lab setting,
- junior standing in credits,
- leadership experience,
- past materials internship/industry experience,
- a g.p.a. above a 3.0.

For more information, [click here](#).

Dept. of Energy (DOE) Graduate Fellowships



[DOE Computational Science Graduate Fellowship for PhD Students](#)

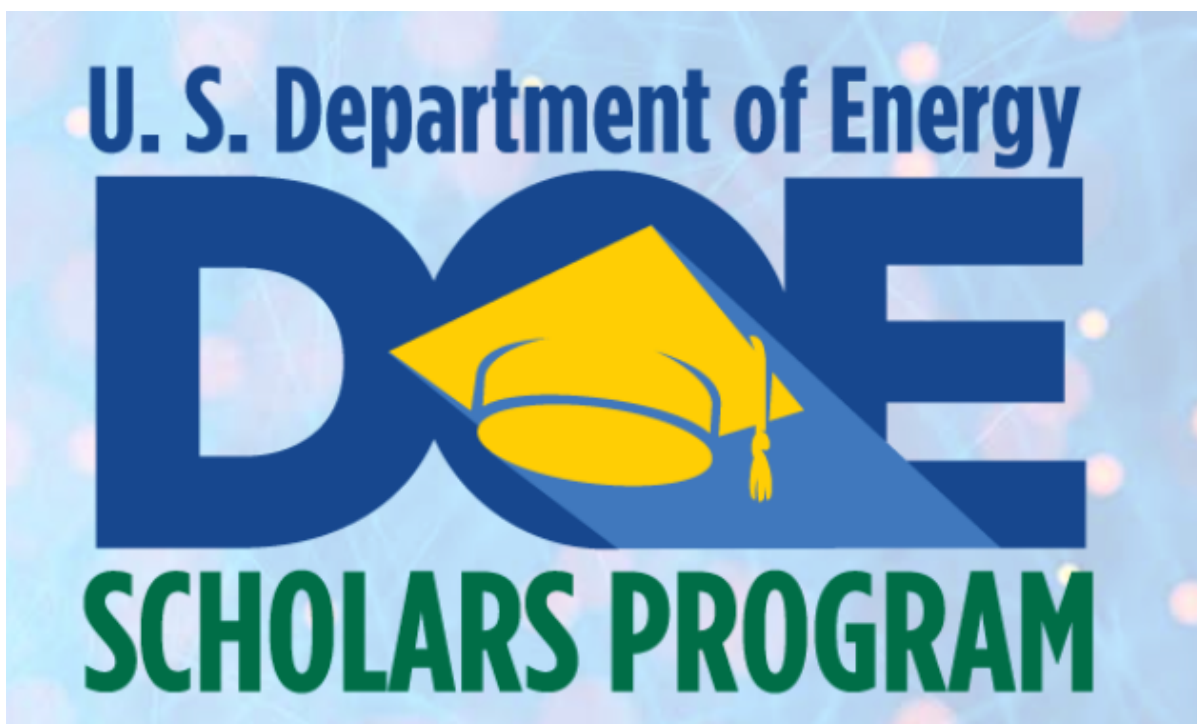
Application deadline January 12, 2022

[DOE NNSA Stewardship Science Graduate Fellowship](#)

Application deadline January 5, 2022

[DOE NNSA Laboratory Residency Graduate Fellowship](#)

Application deadline March 16, 2022



The DOE Scholars Program introduces students and recent college graduates to the Department of Energy (DOE) mission and operations.

The DOE Scholars Program aims to create a pipeline of highly qualified talent in disciplinary fields that support mission-critical areas of the U.S. Department of Energy (DOE) in the following areas:

- Energy Security
- Nuclear Security
- Scientific Discovery and Innovation
- Environmental Responsibility
- Operations and Management
- Cyber Security
- Safeguards and Security
- Technological Advancements

Being selected as a DOE Scholar offers the following benefits:

- Stipends starting at \$600/week for undergraduates and \$650/week for graduate students and post graduates during the internship period
- Limited travel reimbursement to/from assigned location
- Direct exposure to and participation in projects and activities in DOE mission-relevant research areas
- Identification of career goals and opportunities
- Development of professional networks with leading scientists and subject matter experts

Eligibility

- Be a U.S. citizen
- Be an undergraduate, graduate student of recent graduate of an accredited institution of higher education.
- Must be pursuing a degree or have received a degree within 5 years of starting date in a STEM discipline or in a field that supports the DOE operations mission.

Apply at www.zintellect.com/Opportunity/Details/DOE-Scholars-2022-Gen

Application deadline: January 7, 2022, 8:00 a.m. Eastern Time Zone

For more information: <https://orise.orau.gov/doescholars>

Download program flyer: <https://orise.orau.gov/doescholars/files/doescholars-flier.pdf>

Questions? doescholars@orise.orau.gov



Caltech is now accepting applications for our WAVE Fellows undergraduate research program.

Please share with students and colleagues. Thank you!

The WAVE Fellows program provides support for undergraduate students, who are underrepresented in STEM and intend on pursuing a Ph.D., to conduct a 10-week summer research project under the mentorship of Caltech faculty.

Research opportunities in biology, neuroscience, chemistry, chemical engineering, engineering and applied science, geology, environmental science, sustainability, astronomy, physics, nanotechnology, quantum sciences, humanities, social science, and more!

Research-specific [information sessions](#) are scheduled starting on November 3. This is a chance to learn more about the program, application process, and meet Caltech faculty in different disciplines.

Applications due Jan 7, 2022.

Program dates: June 13 - August 19, 2022.

ELIGIBILITY

Applicants must be current sophomores, juniors, or non-graduating seniors;
have a cumulative GPA of at least 3.2;
be a US citizen, permanent resident, or have DACA status.
Strong applicants are encouraged to have prior research experience.

PROGRAM HIGHLIGHTS

Graduate school prep workshops
Faculty seminars
Networking events
Writing workshops
Social activities

[Click here](#) for more information.

Questions about the WAVE Fellows program can be directed to [Carol Casey](#).

APPLY NOW!

Tenure-track and Postdoc Positions

If you are interested in academic positions in MSE, please review the postings listed on the [University Materials Council website](#).



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