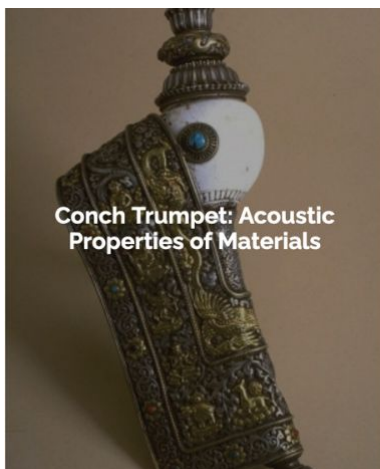




Welcome to TeamMSE Vol. 4 - October 11

If you have information you'd like to share with the community in our next issue, due out on Oct. 25, please email [Kristen Freshley](mailto:krisfres@umich.edu) at krisfres@umich.edu by Sunday, Oct. 24. Any and all suggestions/comments regarding TeamMSE are welcome, too!

MSE at UMMA!



Conch Trumpet: Acoustic Properties of Materials

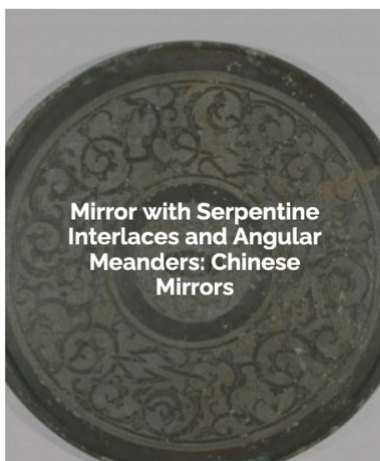


Shakudô Tsuba: Metallic Surface Coloring



Hammered Basin: Defense Against Pathogens

Materials



Mirror with Serpentine Interlaces and Angular Meanders: Chinese Mirrors

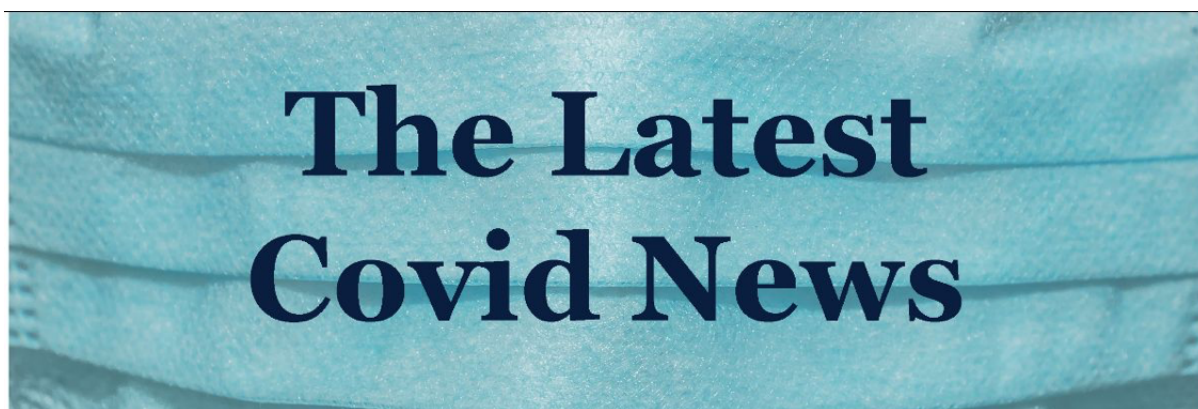


Goryeo Celadon Gourd Shaped Ewer with Lid: Glaze Color



Donald Maxwell Robiner Inkwell Collection: Appearances of Glass

The GSC Outreach team (led by Ph.D. candidate Brian Iezzi), recently teamed up with the U-M Museum of Art (UMMA) to create a cool digital exhibit titled: Materials Tour at UMMA, which explains the scientific properties of various art objects at UMMA. [Click here](#) or photo above to view.



The following are your need-to-know highlights (which are positive and brief!) from President Schlissel's Covid briefing on Friday:

- **Cases remain low.** Covid positivity rates remain low in the campus community including both symptomatic and asymptomatic testing. U-M

student cases currently represent only 7 percent of the cases in Washtenaw County.

- **Little community spread.** U-M faculty research genomic surveillance results reveal that little spread of COVID-19 between the campus and surrounding community.

Pop-up antigen testing in November and December

In anticipation of students traveling in the coming months, U-M will be partnering with the Michigan Department of Health and Human Services to provide free pop-up rapid antigen testing on campus during select dates in November and December. Read more travel recommendations [here](#).



This Friday's seminar speaker: JC Zhao, MSE Chair at the University of Maryland



JC Zhao, a Minta Martin Professor and Chair of the MSE Department at the University of Maryland, will present "High throughput experiments and holistic integration with computational data for accelerated database establishment and alloy design" this **Friday, Oct. 15** at 10:30 in 1670 Beyster. Zoom link: umich.zoom.us/j/94287032654. Passcode: 340035

Sandwiches and Speakers with MSE GSC

Wednesday, October 13

12-1:00 p.m./3358 A Duderstadt

Multiple student organizations in engineering -- including MSE GSC -- are facilitating the Sandwiches and Speakers Series (Oct. 13, Oct. 27, and Nov. 10) to provide students with an opportunity to practice their science communication and prelim presentations. Come for a sandwich and help give your peers feedback. Preference will be given on a first-come-first-serve basis because of limited capacity due to COVID. [Sign up here](#).

RSVP deadline Oct. 18 for inaugural MMRI Symposium on Nov. 9-10

The first annual Michigan Materials Research Institute Symposium (MMRI) will explore state-of-the-art materials research at U-M, including challenges and opportunities for the future. Particular attention will be given to U-M researchers who are transforming the face of materials science and blazing the trail for future generations of materials scientists and engineers.

All U-M undergrads, Ph.D. students and postdocs are invited to take part in a poster session on Nov. 9 that showcases the intellectual diversity and broader impacts of our field. Awards will be given for best posters. The poster submission deadline is **Monday, October 18**.

On Nov. 10, faculty and external speakers will present on their domains of expertise and visions for the future. A detailed agenda for the symposium will be issued soon.

[Please RSVP](#) for all events by **Monday, October 18**.

MMS Pumpkin Carving Event!

Thursday, October 21

6-8:00 p.m.

Mason Hall, Rm 2333

MMS is hosting a pumpkin carving event! Pumpkins, tools, and snacks will be provided. Please [RSVP](#).



Northwestern MSE PhD information session with Sossina Haile October 22

Northwestern University Ph.D. Program Information Session

**All majors
welcome!**

**October 22
3:00 p.m.
1571 G.G. Brown**

with

Professor Sossina Haile

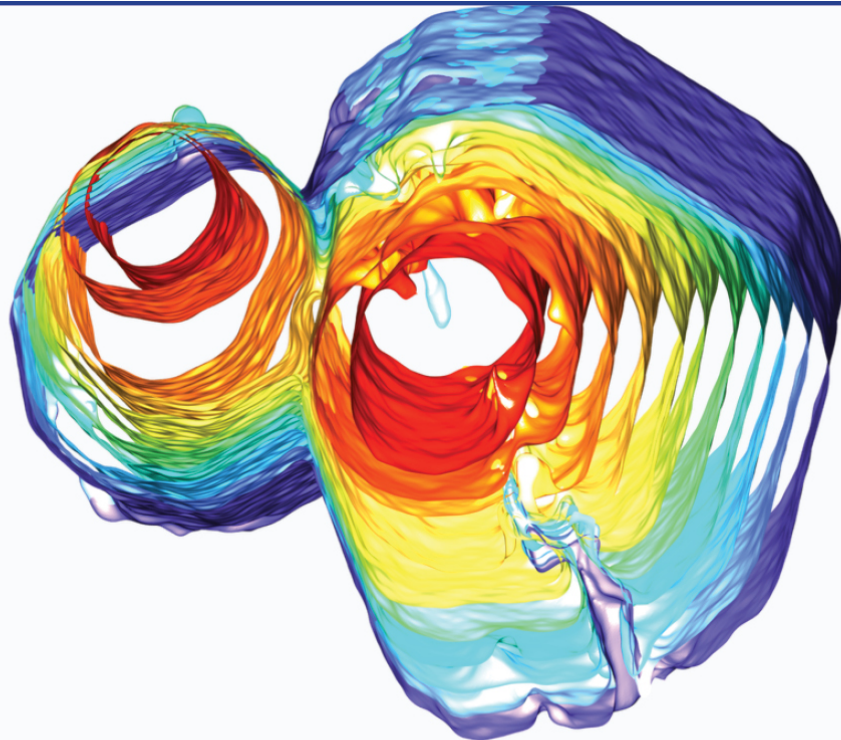
*Walter P. Murphy Professor of Materials Science
& Engineering, Northwestern University*



You're invited to an information session about the Materials Science and Engineering Ph.D. program at Northwestern University on October 22 at 3:00 p.m. in 1571 G.G. Brown. A selection of snacks and refreshments will be served. All Ph.D. students at Northwestern receive full tuition scholarship plus a stipend. The program welcomes students from all science and engineering majors; an undergraduate materials science degree is not required. For questions about the session, contact [Yiyang Li](#).

Research News

Resurrecting quasicrystals: Findings could make exotic material commercially viable



 An X-ray tomography visualization shows a top-down view of two quasicrystals as they start to meld together during cooling. Image: Shahani Group, University of Michigan

In a paper that was recently published in Nature Communication, “Formation of a Single Quasicrystal Upon Collision of Multiple Grains,” a team led by Ashwin Shahani details how the discovery of a self-healing phenomenon could reduce defects that rendered quasicrystals impractical. [Read more.](#)

Faculty News

John Allison part of national team helping

to democratize access to data



The team recently received \$5.6M from NSF for a pilot project called the National Science Data Fabric (NSDF). [Read more.](#)



**Paul Chao selected for D.O.E.
Graduate Student Research Program**



Paul Chao, a member of the Shahani group, was recently selected by the D.O.E.'s Office of Science Graduate Student Research Program, an award that provides graduate students from across the country the opportunity to conduct part of their thesis research at a host DOE laboratory. Paul is one of only 65 graduate students from 29 states to receive the prestigious honor. He will spend the next year, 2022, working with beamline scientists at Brookhaven National Laboratory in Upton, Long Island, N.Y. [Read more](#).

CONGRATULATIONS, Paul!!



MSE Apparel Design Contest

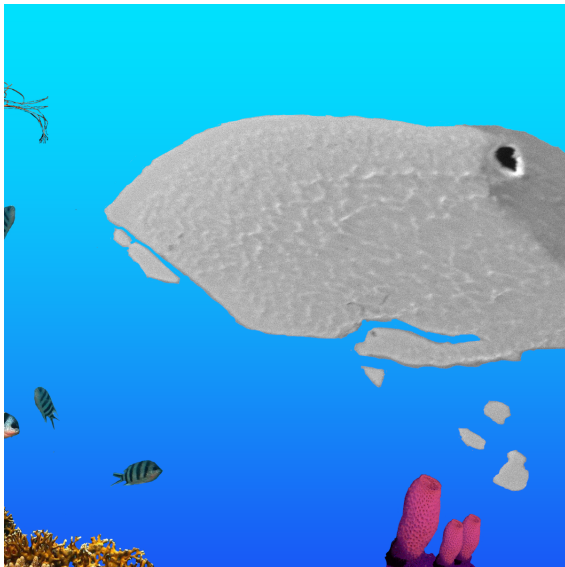
MMS is sponsoring an MSE apparel design contest for the 2021-2022 school year. Multiple submissions are allowed, and the winner will receive free apparel with their design along with a \$50 Amazon gift card.

All submissions are due by **Friday, October 22 at 11:59pm EST.**

Submit a design [here](#).



MSE 2022 Calendar Art contest!



We're once again looking for some cool, creative "science as art" images to use in a variety of MSE marketing materials, including our 2022 calendar! Please submit your image(s) (along with a caption and advisor/course name) to Kristen at krisfres@umich.edu. Submissions are due by **Friday, October 29 at 11:59 p.m. EST.**



Van Vlack Technical Lecture with 2019

Chemistry Nobel Laureate Stan Whittingham



Stan Whittingham answers questions during his virtual lecture, "The Lithium Ion Battery, from a Dream to Readiness to Take on Climate Change," last Friday. To view a recording of this presentation, [click here](#) (requires U-M login). We look forward to welcoming Prof. Whittingham to campus for a public lecture in May. Stay tuned for details!



Fellowships with Sandia National Labs

If you are graduating with a Ph.D. in the next year, consider applying for a Harry Truman or Jill Hruby Fellowship at Sandia National Labs. Fellows are given a three-year grant to work on any topic at a Sandia site in either New Mexico or California. The award includes full benefits and a \$111,000 annual stipend. Previous fellows have found success as faculty, staff scientists in national labs, and in industry.

Deadline for applications is **October 15**. If you have any questions, feel free to

contact [Assistant Professor Yiyang Li](#), who was a Truman Fellow prior to starting at U-M. Learn more: tinyurl.com/TrumanFellowship or tinyurl.com/HrubyFellowship.



BECOME A TRUMAN OR HRUBY FELLOW AT SANDIA LABS

OPPORTUNITIES

- Pursue **independent research**.
- Conduct **ground-breaking work** in national security.
- Collaborate with some of the **nation's best scientists and engineers**.
- Leverage **leading-edge scientific facilities**.
- Stimulate explorations at the forefront of science and technology in **high-risk, potentially high-value research and development**.

Learn more
tinyurl.com/TrumanFellowship
tinyurl.com/HrubyFellowship

QUALIFICATIONS

PhD conferred within the past three years at the time of application or completion of PhD requirements by October 1, 2022 (beginning of appointment)

Evidence of strong academic achievement, excellent technical accomplishment, leadership, and ability to team effectively

No previous postdoc appointments at a national lab (pre-postdoc internships excluded)

Research in areas meaningful to national security

Development/submission of a compelling research proposal

Ability to obtain and maintain a DOE security clearance, which requires U.S. citizenship

FOCUS AREAS

- Bioscience
- Computing and Information Science
- Engineering Science
- Geosciences
- Materials Science
- Nanodevices and Microsystems
- Radiation, Electrical, and High Energy Density Physics

APPLICATION DEADLINE

OCTOBER 15, 2021

Three-year appointment
Salary: \$111,200 + benefits

All members of Sandia Labs will receive consideration for appointment without regard to race, color

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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