

MDS-Rely

JULY 2025

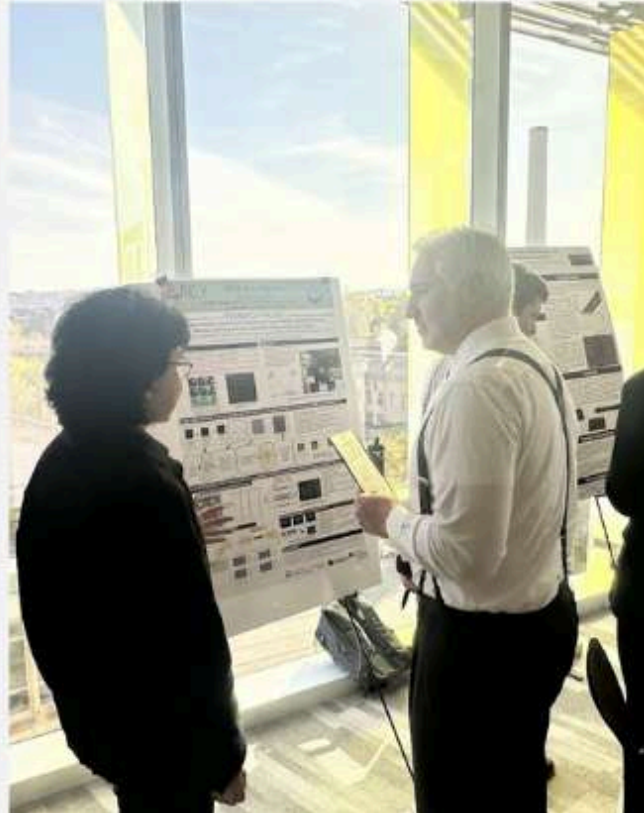
NEWSLETTER

Upcoming Fall Meeting!

Other Highlights

Dr. Divita Mathur Earns
NSF Career Award

Student Spotlight:
Yixiao He



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Fall Meeting



Registration is free! Join us at Case Western Reserve University for cutting-edge research presentations, global insights, and networking opportunities with faculty, students, industry professionals, and government lab representatives. Interested in learning more? Find the most up to date information on our Fall Meeting page [here](#).

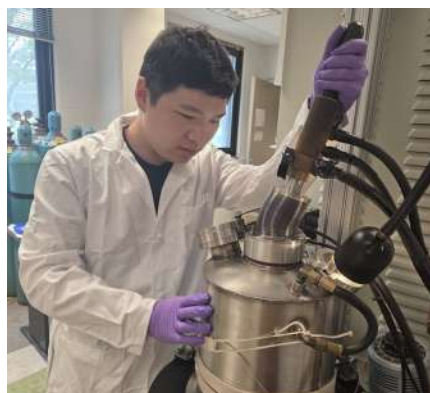
[Register here!](#)

Featured Announcements



Dr. Divita Mathur, a professor of Chemistry at Case Western Reserve University, was awarded the prestigious NSF CAREER grant earlier this month. Dr. Mathur was chosen for her work in synthesizing programmable nanoparticles to be used in gene therapy. She also works on our “**Predictive Framework to Indicate the Age of Plastics for Proper Recycling**” project. Read more about her work and award [here](#).

Student Feature: Yixiao He



Yixiao He is Dr. Hyeji Im’s first PhD candidate and leading the “**Quantitative Characterization of Chemical Interaction of Solutes with Defects for Predicting Intergranular Corrosion**” project. His work focuses on understanding intergranular corrosion in Mo-Si-B alloys and treatments using laser additive manufacturing. Learn more about Yixiao He’s experiences and contributions as well as the team’s research project as a whole [here](#).

Member Engagement Opportunities

Ongoing and Completed Research Projects

Our Project summary document provides detailed summaries of the ongoing and completed research projects. Some senior design projects are also highlighted. Please check it out [here](#).

Biweekly Research Project Meetings

Stay engaged with the latest in research and development by joining our biweekly project meetings on Zoom. Each session offers updates and discussion, along with opportunities to mentor PhD students in advanced research. Can't make a session? Contact the lead professor to explore flexible options. Check the Center Calendar for dates and times. Check the [Center Calendar](#) for meeting dates and times.

1. Effects of Aerosol Jet Printing Parameters on the Lifetime Performance of Additively-Manufactured Flexible Circuits

Prof. Janet Gbur

Aug 7, 21... every other Thursday 1:00 - 2:00 PM

2. Non-Invasive Detection of Defects during Coatings Manufacturing

Prof. Chris Wirth

Aug 1, 15 ... every other Friday 11:45 - 12:15 PM

3. Enhancing Degradation Analysis and Failure Prediction through Modern Machine Learning Techniques

Prof. Satish Iyengar

Aug 6, 20 ... every other Wednesday 3:00 - 3:30 PM

4. Machine Learning Methods for Optimizing and Innovating Structural Color Paints and Coatings

Profs. Paul W. Leu, Oliver Hinder, and Jungtaek Kim

Aug 6, 20... every other Wednesday 11:00 - 11:30 AM

5. Predictive Framework to Indicate the Age of Plastics for Proper Recycling

Profs. Metin Karayilan, Divita Mathur, Sanmukh Kuppannagari

Aug 8, 22... every other Friday 9:30-10:30 AM

6. Quantitative Characterization of Chemical Interaction of Solutes with Defects for Predicting Intergranular Corrosion

Profs. Hyeji Im

Aug 6, 20 ... every other Wednesday 2:30-3:00 pm

7. In-process Measurement Feedback Control of Surface Defects for Enhancing Laser Powder Bed Fusion Process Reliability and Product Quality

Profs. Xiayun Zhao (Pitt) and Pawan Tripathi (CWRU)

Aug 5, 19 ... every other Tuesday 12:30-1:30 pm

Job Openings and Opportunities

Member Job Openings

- [Eaton's Career Page](#)
- [Lawrence Livermore National Laboratory Internships](#)
- [National Energy Technology Laboratory Career Page](#)
- [Parker Hannifin Career Page](#)
- [U.S. Army Devcom Student and Intern Opportunities](#)
- [National Institute of Standards and Technology Job Openings](#)
- [Naval Nuclear Laboratory Career](#)
- [Westinghouse](#)
- [PPG](#)

Submit News

[Fill out a news form here!](#)

Submit Job Openings

*For MDS-Rely members only

[Fill out a job opening form here!](#)

Interested in partnering with Case Western or Pitt Professors?

Please contact [Dr. Laura Bruckman](#) or [Dr. Paul Leu](#) for more information!

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