



MDS-Rely

JUNE 2025

NEWSLETTER

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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

Member Spotlight: PPG



Please join us in welcoming one of the newest members of MDS-Rely, PPG! With research interests in polymer property prediction, polymer stability prediction, structure–property relations, machine vision (segmentation and object detection), and data management and storage, we are excited to open the doors for collaboration on both our current and future projects with this innovative company.

Read more about PPG [here](#).

MDS-Rely Chicago Summer Forum Recap



Thank you to all who attended our Chicago Forum last month that explored new partnerships within the Chicago area! The event was a success with over 15 attendees that represented 10 organizations including Northeastern Illinois University and a discussion of their current programs. We'd also like to extend a special thank you to Dr. Kristian Hammond, a professor of Computer Science at Northwestern University and the Director of the Center for Advancing Safety of Machine Intelligence. He delivered the afternoon's keynote on "Building Meaningful Collaborative Experiences in the Fields of AI".

A promotional graphic for the MDS-RELY 2025 Fall Meeting. The graphic features a red and black color scheme. At the top, the text "MDS-RELY" is on the left and "2025" is on the right. Below this, the main headline reads "FALL MEETING 2025 IS COMING!" in large, bold, white letters. The center of the graphic contains three small inset photographs: the first shows three people in business attire, one holding a certificate; the second shows two men in a discussion; the third shows a man speaking at a podium. At the bottom, a white banner contains the text "REGISTER TODAY" in red, followed by "August 26-27, 2025" and "Case Western Reserve University" in black. A calendar icon is positioned to the left of the date.

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

June 26, July 10... every other Thursday 2:00 - 3:00 PM

2. Non-Invasive Detection of Defects during Coatings Manufacturing

Prof. Chris Wirth

June 20 ... every other Friday 11:45 - 12:15 PM

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

Prof. Satish Iyengar

June 25, July 9 ... 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

June 25, July 9 ... 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

June 27, July 11 ... 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

June 25, July 9 ... 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)

July 8, 22 ... 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](#)

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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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