



# MDS-Rely

AUGUST 2025

NEWSLETTER

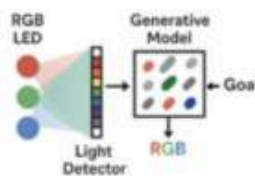
## Fall Meeting is Here!

### Other Highlights

New Research Project Proposals

Keynote Spotlight: Adam Gripper

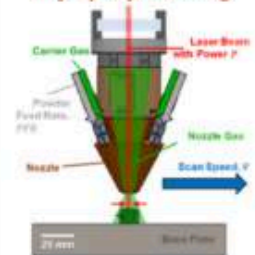
#### Multimodal ForMLation



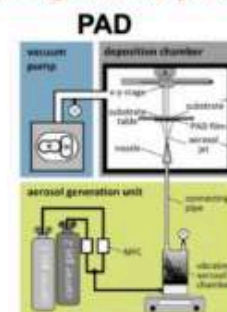
#### Grid Resilience



#### Dry Spray Coating



#### Printing Refractory Metals



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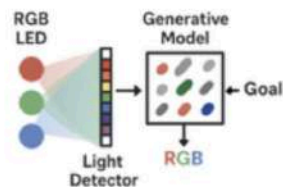
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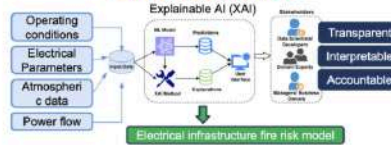
# Fall Meeting

## New Fall Meeting Project Proposals!

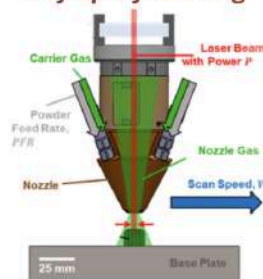
### Multimodal ForMLation



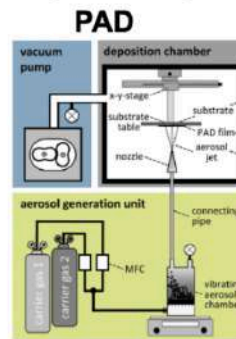
### Grid Resilience



### Dry Spray Coating



### Printing Refractory Metals



Join us at Case Western Reserve University on August 26th for cutting-edge research presentations, global insights, and networking opportunities with faculty, students, industry professionals, and government lab representatives.

We're excited to announce seven new projects that will be pitched at the Fall meeting.

- 1. Electrodeposition of Protective Coatings for Harsh Environment**  
*Prof. Jung-kun Lee, Pitt*
- 2. Development of Process Reliability Parameters for Dry Spray Coating Technique**  
*Prof. Neamul Khansur, CWRU*
- 3. Effect of Deoxidizer Additions on Printing Outcomes of Refractory Metals**  
*Prof. Bryan Webler, CMU*
- 4. Explainable AI based Electrical Grid Fire Resilience Assessment and Predictive Analytics**  
*Prof. YuAnn Li, Pitt*
- 5. Multimodal ForMLation**  
*Prof. John Kitchin, CMU*
- 6. Enhancing Data Management Practices with Ontologies & FAIR Pipelines**

*Prof. Erika Barcelos, CWRU*

**7. Good Vibrations: Developing a Standard for Time-Sonication Superposition to Accelerate Characterization of Aqueous Polymer Degradation**

*Prof. Jerry Wang, CMU*

To learn more about the projects, see their proposal descriptions [here](#).

Don't miss this opportunity to hear the pitches, engage with the research, and connect with the community.

[Register here!](#)

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**Meet the Fall Meeting Keynote: Adam Gripper**



Adam Gripper, the Program Director for Advanced Technology Pipeline at the Naval Nuclear Laboratory will be delivering this year's lunch keynote on "Mission-Driven Innovation in Defense and Government Systems."

See the talk abstract [here](#).

Read Adam's Bio [here](#).

## **Member Engagement Opportunities**

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### **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](#).

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## **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 (CWRU)*

Sep 4, 18... every other Thursday 1:00 - 2:00 PM

### **2. Non-Invasive Detection of Defects during Coatings Manufacturing**

*Prof. Chris Wirth (CWRU)*

Sep 12, 26 ... every other Friday 11:45 - 12:15 PM

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

*Prof. Satish Iyengar (Pitt)*

Sep 3, 17 ... 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 (Pitt)*

Sep 3, 17... 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 (CWRU)*

Sep 5, 19... 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 (CWRU)*

Sep 3, 17... 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)*

Sep 2, 16, 30 ... every other Tuesday 12:30-1:30 pm

# Job Openings and Opportunities

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## 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!

### CONNECT WITH US!



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#### **Our mailing address is:**

Case Western Reserve University  
White Building, Room 538  
10900 Euclid Avenue  
Cleveland, OH 44106

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