

## SCHEDULE

- 8:15 am Breakfast (Frank Walk Room - ELAB)  
 9:00 am Opening Remarks – Dr. Guoqiang Li (PFTH 1245)  
 9:10 am Announcements – Dr. Hunter Gilbert (PFTH 1245)

### Morning Session 1

PFTH 1245	<b>Chair: Sourav Saha</b>
9:10 – 9:30 am	<b>Elnaz Sheikh</b> - Raman Microspectroscopy Imaging of Protein and Lipid Species in the Microenvironment of Pancreatic Cancer Tissue. (Advisor: Dr. Manas Ranjan Gartia) <b>Nominee for Outstanding Research Assistant</b>
9:30 – 9:50 am	<b>John Bayelma Konlan</b> - Design and manufacturing of versatile self-repairing composite laminates for engineering applications (Advisor: Dr. Guoqiang Li) <b>Nominee for Outstanding Research Assistant</b>

- 9:50 am **Voting Instructions** (Dr. Hunter Gilbert)  
 9:55 am Break and Voting (Outstanding Research Assistant)

### Morning Session 2

PFTH 1245	<b>Chair: Phillip O John</b>
10:05 – 10:25 am	<b>Edward Morgan</b> - Model-based Visual Control for Robotic Manipulators Using Udwadia Kalaba Formulation (Advisor: Dr. Corina Barbalata)
10:25 – 10:45 am	<b>Ehsan Bagheri</b> - Additive Friction Stir Deposition And Characterization Of Al 7075 parts (Advisor: Dr. Shengmin Guo)
10:45 – 11:05 am	<b>Azmyin Md Kamal</b> - Solving Short-Term Relocalization Problems in Monocular Keyframe Visual Slam Using Spatial and Semantic Data (Advisor: Dr. Corina Barbalata)
11:05 – 11:25 am	<b>Maria Iftesum</b> - Hierarchical Self-Assembly of 2D Hafnium Disulfide Nanoplatelets and Gold Nanospheres for Sensing of Monkeypox Virus (Advisor: Dr. Manas Ranjan Gartia)
11:25 – 11:45 am	<b>Mojtaba Talachian</b> - MELD (friction stir) printed Al6061 at high deposition rates - Process & Material Properties (Advisor: Dr. Shengmin Guo)
11:45 – 12:05 pm	<b>Abhishek Paudel</b> - A full metal-free flexible Ammonium-ion battery with biodegradable hydrogel electrolyte (Advisor: Dr. Ying Wang )

- 12.05 pm Lunch (Frank Walk Room, ELAB)

### Afternoon Session 1

PFTH 1245	<b>Chair: Subhrajyoti Sourav Kumar Kundu</b>
1:20 – 1:40 pm	<b>Robert Dally</b> - Laminar Flim Condensation On A Vertical Plate With Condensation Kinetics (Advisor: Dr. Harris Wong)
1:40 - 2:00 pm	<b>Eloghosa Ikponmwoba</b> - A multi-agent reinforcement learning approach for automated discovery of swarm-based optimization policies. (Advisor: Dr. Ope Owoyele)
1:55 – 2:15 pm	<b>Peyton Wilson</b> - On the Measurement of Total Entropy Generation for Determining Fatigue Fracture (Advisor : Dr. Michael Khonsari)

**21st MIE Graduate Student Conference, April 20, 2024**

2:15 – 2:35 pm	<b>Okezzi Ukorigho</b> - A Competitive Learning Approach For Specialized Models: An Approach To Modeling Complex Physical Systems With Distinct Functional Regimes (Advisor:Dr.Ope Owoyele)
2:35 – 2:55 pm	<b>Zheng Qiao</b> – Research on 3D Printing resin exposure properties and its application on centrifugal microfluidic platform based on solid phase extraction. (Advisor: Dr. Wanjun Wang)

2:55 pm      Break

PFTH 1245	<b>Award Ceremony</b>
3:30 – 4:00 pm	Raffle & Award Presentation Best Presentation Award Outstanding Research Assistant Award
4:00 pm	Closing Remarks
4:05 pm	Group Photo

Adjourn