

## 2022 MME GRADUATE RESEARCH SYMPOSIUM ABSTRACTS - Feb 18, 2022

Type	1st Author/Presenter	Time	Level	Advisor	Title
Oral	Bianco Atria, Giuseppe	9:00	PhD	Agarwal	Predicting Oxidation Damage in Ultra High-Temperature Borides: A Machine Learning Approach
Oral	Dey, Preyojon	9:15	PhD	Boymelgreen	Study of the effect of environment and exposure duration on nanoplastics accumulation in marine species
Oral	Esdaille, Shanece	9:30	PhD	Chen	Raman Spectroscopy studies of iron oxyhydroxide at elevated Pressure-Temperature conditions
Oral	Jafarizadeh, Borzooye	9:45	PhD	Wang	Pulse waveform detection by piezoresistive pressure sensor using a fully wearable system
Oral	John, Denny	10:00	PhD	Agarwal	Development of Engineered Aluminum Alloy Powders for Cold Spray Deposition of High strength Aluminum Alloy Coatings.
Oral	Joshi, Riddhi	10:30	PhD	Agarwal	Microstructure based Finite Element analysis of Ultrasonically casted Metal Matrix Composites
Oral	Kumar, Nivedita	10:45	PhD	Secules	Future Career Pathway Perceptions of Low-Income Computing Students
Oral	Seiseddos, Gonzalo	11:00	PhD	Boesel	Non-destructive Evaluation of Composites for Aerospace Applications
Oral	Modir, Alireza	11:15	PhD	Tansel	Multiple Width Pulse Excitation Method for Structural Health Monitoring Systems
Oral	Orikasa, Kazue	11:30	MS	Agarwal	Orientation-Dependent Thermal and Mechanical Properties of 2D Boron Nitride Nanoplatelet Foam via Freeze-Drying
Oral	Ramteke, Sandeep	14:00	PhD	Boymelgreen	Fabrication and analysis of modes of collective behavior of active colloids.
Oral	Sukumaran, Abhijith	14:15	PhD	Agarwal	Development of Novel Wear and Impact Resistant Titanium-boron nitride Coatings for Lunar Structural Components
Oral	Yepez, Alejandra	14:30	MS	Boesel	Design of Inverse Molding as an additive manufacturing technique of complex shapes of carbon fiber composites
Oral	Kali, Maimuna Begum	14:45	PhD	Secules	The New Normal: Student Perspectives on Supportive University Policies during COVID and Beyond
Poster	Chowdhury, Azmal	15:00	PhD	Wang	Fabrication of Porous and Breathable Dielectric Layer for Capacitive Pressure Sensor
Poster	Das, Suprabha	15:00	PhD	Cheng	Synthesis and Flash Sintering of Zirconium Nitride Powder
Poster	Eskandariyu, Amirali	15:00	PhD	Cheng	Flash Sintering of MWCNT-reinforced ZrN Composite
Poster	Moshtaghzadeh, Mojtaba	15:00	PhD	Pezhman	Prediction of Fatigue Life of a reconfigurable Origami structure using ANN
Poster	Okafor, Chiamaka	15:00	PhD	Munroe	Biodegradation behavior of ultralight Mg-Li based alloys
Poster	Palacios Salamanca, Blanca	15:00	MS	Agarwal	Microstructure and Mechanical Properties of Wire Arc Additive Manufactured Commercially Pure Titanium
Poster	Sozal, Md Shariful	15:00	PhD	Cheng	Electrical, Thermal, and H <sub>2</sub> O and CO <sub>2</sub> Poisoning Behaviors of PrNi <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3-δ</sub> Cathode for Proton Conducting Intermediate Temperature Solid Oxide Fuel Cell