All times are MT

Presentation Sessions

Wed 4/29/2020

1st AM Session	Authors	Paper/Presentation Title	
9:00-9:12	Abu Bakar Siddique and Tariq Khraishi	A dislocation near a cylindrical hole: A numerical treatment	ZOOM link 1
9:12-9:24	Siavash Nikravesh, Donghyeon Ryu and Yu-Lin Shen	Deformation Instabilities of Thin Films on a Compliant Substrate: Direct Numerical Simulations	
9:24-9:36	Pallavi Sharma	Optimization of a Microfabrication Process of a thermomechanical micro actuator: The Bimorph Cantilever	
9:36-9:48	Zachary Brounstein, Elizabeth Armistead, Murali Duggina, Pallavi Sharma and Nathan Jackson	Microfabrication of MEMS Electro-Thermal Actuators for Problem-Based Learning	
9:48-10:00	Alfred Mongare and Donghyeon Ryu	Self-Powered Strain Sensing using Mechano-Luminescent-Optoelectronic Composites	

2nd AM Session	Authors	Paper/Presentation Title
10:20-10:32	George Hoover and Donghyeon Ryu	Strain-amplifying metamaterials for multifunctional mechano-luminescence-optoelectronic composites
10:32-10:44	Dominic Bosomtwi and Viktoriia Babicheva	Fano Resonances and Rabi Splitting in Plasmonic-Dielectric Metasurface
10:44-10:56	Irma Rocio Vazquez and Sakineh Chabi	Solar Fuels: Importance of Material Compatibility in Their Production
10:56-11:08	Zakreya Mahamud, Kamaluddin Hussein, Ali Warsame, John Attia, Ali Husainat and Shuza Binzaid	Renewable Energy: Solar Cells
11:08-11:20	Matthew Foltz, Shreya Acharya, Mamata Shrestha, Kenneth Logan and Mashal Batais	Design of Smart Energy Management Subsystem for a Planetary Rover Application

1st PM session	Authors	Paper/Presentation Title

11:40-11:52	Jesus Ortega	Thermal Energy Storage: Gaps and Bridges for Concentrating Solar Power Technologies	
11:52-12:04	Yusuf Isa-Yusuf, Shuza Binzaid and John Attia	Thermal Energy Harvesting Application in Vaporized-Liquid-Powered Closed-Loop-Turbine for Solar Electric Power Generation	
12:04-12:16	Michael Brown, Christopher Medlow, Shuza Binzaid, Penrose Cofie, Warsame Ali and John Attia	Vertical Column Wind Speed Measurement at PVAMU	
12:16-12:28	Brett Johnston, Danny Logan, Shuza Binzaid, John Attia and Warsame Ali	An Experiment of Bio-Gas Production and Data Analysis for International Goat Farm at Prairie View A&M University	
12:28-12:40	Jade Chapman; Gage Arter;Truc Le; Kevin Zhang; Behbood B. Zoghi	Aquatic Nitrogen Monitor	

2nd PM session	Authors	Paper/Presentation Title	
1:00-1:12	Jiyah Starks, Yuxin Jiao and Danyal Syed	The Engineering Design process for the EPICS' Motorized Art Table for Adults with Intellectual and Developmental Disabilities	ZOOM link 2
1:12-1:24	Erika Louviere and Gholam Massiha	Design and Develop of a Mechanism to Minimize Musculoskeletal Stress on Crawfish Farmers	
1:24-1:36	Niyem Bawana, Amir Mirzaeinia and Mostafa Hassanalian	Energy Management of Migratory Birds through Flock Mutation	
1:36-1:48	Savannah Bradley and Mostafa Hassanalian	Anti-Predator Mechanisms of Animals and Design of Anti-Predator Drones	
1:48-2:00	Anna Zagrai and Mostafa Hassanalian	Penguin coloration affects skin friction drag	
2:00-2:12	Micaela Olivas and Mostafa Hassanalian	Design a fixed-wing drone for Titan exploration	
2:12-2:24	Micaela Olivas and Mostafa Hassanalian	Possible Fueling Mechanisms for Titan-Exploration Drone	
2:24-2:36	Gabriel Acosta and Mostafa Hassanalian	Fixed-wing drones for Venus exploration: Design and challanges	
2:36-2:48	Javad Shahmoradi, Pedram Roghanchi and Mostafa Hassanalian	Drones in underground mines: Challenges and applications	

3rd PM session	Authors	Paper/Presentation Title

3:10-3:22	Angela Attia, Sierra Johnson, Shuza Binzaid, John Attia, Yusuf Isa-Yusuf and Warsame Ali	Wireless Network System for Grid with Node & End Station Developments for Remote Sensing
3:22-3:34	Adeyemi Taylor, Shuza Binzaid and John Attia	Microcontroller-based Custom Test Module for Multifunctional Sensor for Radiation Environments
3:34-3:46	Aleksandr Sergeyev, Spencer Thompson, Larry Stambeck, Andy Posa and Paniz Hazaveh	Efficient Way of Converting outdated Allen Bradley PLC-5 System into Modern ControlLogix 5000 suit
3:46-3:58	Iftekhar Basith, Jeremy England, Lance Sebesta, Brandon Foster and Matthew Hebert	A Full Adder - Using Analog Components for Digital Logic
3:58-4:10	Gokul Venugopal, Mequanint A. Moges, Brian La, Jeremy Fitzpatrick, Maryam Karage and Taylor Gehring	Seguranca
4:10-4:22	Gokul Venugopal, Moges Mequanint, Gabriella Rodriguez, Jenniffer Rodriguez, Valerie Cua and Maria Gloria Obono	Face Swap Crisis
4:22-4:36	Gokul Venugopal, Moges Mequanint, Michael Anjorin, Andy Appau, Nawal Elsadig, Andres Escobar and Hao Zhang	The Vault- Smart Desk
4:36-4:48	Arthur Pachachura, Vedansh Patel	Engaging Students through Community Projects: Impact of Student-led Software Teams on Nonprofit Organizations