



HSI STEM Grant Program



COLLEGE OF
ENGINEERING AND
COMPUTER SCIENCE

Presentation of Research Projects >

AIMS² FALL 2018 STUDENT RESEARCH SYMPOSIUM PRESENTATIONS AND POSTERS

September 11, 2018 - 3:00 - 7:00 p.m.
University Student Union, Grand Salon

PROGRAM

- 3-4:00 p.m. **Poster Viewing**
- 4:00 p.m. **Welcome**
Dr. S. K. Ramesh, Project Director
- SESSION 1**
- 4:05 p.m. **Dr. Tzong-Ying Hao**, Civil Engineering and Construction Management
Experimental Study of Building Vibration Responses with Tuned Liquid Damper – Seismic Induced Vibrations
Students: Sophia Ha, Andrew Langwald, Nancy Corrales, Alan Quiles
- 4:15 p.m. **Dr. Brad Jackson**, Electrical and Computer Engineering
Antennas and RF/Microwave Circuits for Electronic Warfare
Students: Hareth Abdalkarim, Azmyne Asad, Spencer Bagga, Joses Galdamez, Joshua Galeno, Anthony Ortiz
- Dr. Sembiam Rengarajan, Prof. Ronald Pogorzelski**,
Electrical and Computer Engineering
Antenna Design and Testing
Student: Maria Gonzalez
- 4:30 p.m. **Dr. Kyle Dewey**, Computer Science
Evaluating Test Suite Generation Techniques for Introductory Computer Science Assignments
Students: Evelyn Mendieta, Kavya Manohar, Victor Pineda, Hekmat Barbar
- 4:40 p.m. **Dr. Vahab Pournaghshband**, Computer Science
Analyzing and Verifying Live Network Measurements
Students: Aren Boghodian, Mario Garcia
- 4:50 p.m. **Dr. Dale Conner**, Manufacturing Systems Engineering and Management
Closing the Bulk Metallic Glass Data Gap in the Supercooled Liquid Region
Students: Simmarjot Kahlon, Bryan Gutierrez, Christian Mariscal, Ria Regi
- 5:00 p.m. **Dr. Jimmy Gandhi**, Manufacturing Systems Engineering and Management
Automated Security Information and Event Management Business Model Canvas
Student: Henry Reed

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5:10 p.m. **M³—More Melted Metal**
Student: Teny Shahjahanian

5:20 p.m. **Hunny: The Virtual Cosmetician**
Student: Camrynn Robles-Dilley

5:30–5:35 p.m. Refreshment Break

SESSION 2

5:35 p.m. **Dr. Ruting Jia**, Electrical and Computer Engineering
Solving Real World Problems by Using Intelligent Control Techniques
Students: Anthony Ortiz, Jesse Bermudez

5:50 p.m. **Prof. Bruno Osorno**, Electrical and Computer Engineering
Electric Speed Drives and Environment
Students: Joshi Kiran, Samuel Ochoa, Jose David Torres, Andy Vo

6:00 p.m. **Dr. Jimmy Gandhi**, Manufacturing Systems Engineering and Management
Commercialization of the Next Generation Airbag for the 21st Century Automobile
Student: Uriel Castillo

6:10 p.m. **Understanding the Economics of Developing an Affordable 3D Printer for Educational & Recreational Purposes**
Students: Nathalie Pham, Joowhan Lee

6:20 p.m. **Plastic Bag Alternatives**
Student: Vu Ly

6:30 p.m. **Dr. Behzad Bavarian, Prof. Lisa Reiner**,
Manufacturing Systems Engineering and Management
Corrosion Protection of Steel Pipes/Reinforced Concrete Structures Using Corrosion Inhibitors
Students: Aline Avanesian, Jovani Iraheta, Jayshawna Jones, Victor Magallanes, Ivan Plascencia, Dariel Tapia, Fernando Trinidad

6:40 p.m. **Dr. Bingbing Li**
Additive Manufacturing for Lightweight Metal Matrix Nanocomposite
Students: Kerstern Malama, Sergio Amaro, Christian Mariscal

6:50 p.m. **Dr. John Valdovinos**, Electrical and Computer Engineering
Magnetolectric Effect Wireless Power Links
Students: Ivan Garcia, Omar Vargas, Ashley Bermudez, Meilee Stern

7:00 p.m. **Closing Remarks**
Dr. S. K. Ramesh