

Division of Science and Engineering Posters

- SE 01 **"Controlling a Quadcopter Using Computer Vision"**
Cullen Wilcox
Advisor: Robert Avanzato
- SE02 **"Exploring the Contribution of Prosthetic Stiffness to Walking Stability-A computer Simulation Study"**
Farrukh Ergashev.
Advisor: Mukul Talaty
- SE 03 **"Assessing the Relationship between Differing Levels of Variability in Human Gait- An Eye towards Stability"**
Michelle Mirjani
Advisor: Mukul Talaty
- SE 04 **"Team Activity Recognition Using Optical Images"**
Cheng-Yun Ni, Riya Mishra, Haiping Li, Alyssa Garbin, Yuan Fu
Advisor: Vinayak Elangovan
- SE 05 **"Assessing Virtual Modeling Methods & Mechanical Properties of 3D Printed Lower Extremity Prosthetic Sockets"**
Julio Aira IV, Jason Fink, Ya Mei, Manuel Roshart
Advisor: Mukul Talaty
- SE 06 **"A Survey with Radio Astronomy of Cold H1 Clouds in the Milky Way"**
Yemaya Abney, Matt Brownell, Alyson Farkas
Advisor: Ann Schmiedekamp, Carl Schmiedekamp
- SE07 **"Examining the potential of a memory metal solid state heat engine"**
Harrison Weiss, Makarand Wadagave
Advisor: Marcus Besser
- SE 08 **"Analysis of Muscle Activity Using EMG during Passive Leg Drop"**
Clark Khalupsky, Airii Massey, Esmeralda Rodriguez, John Quinn, Yujing Wang
Advisor: Marcus Besser
- SE 09 **"Synthesis of 2-(methylthio) and 2-(phenylthio)ketones"**
Hannah Ahn, Annie Dinh, Saad Zubair
Advisor: Ahmed Y. Nuriye
- SE 010 **"Giant Pulse Detection and Analysis of the Pulsar in the Crab Nebula"**
Nicholas Lynch, Shachi Patel
Advisor: Carl Schmiedekamp, Ann Schmiedekamp
- SE 11 **"Design and Fabrication of CubeSat Prototype and High Altitude Testing via Weather Balloon"**
Kevin Burns, Spencer Yeingst, Harry Sykes, Andrew Fnu
Advisor: Masataka Okutsu, Sabahattin Gokhan Ozden
- SE 12 **"Inhibition of Invasive Behavior of HeLa, T1, and C5 Cancer Cell Lines by Blocking Matrix Metalloproteinase Activity"**
Miguel Costa

Advisor: Eric Ingersoll

SE 013 **"Effect of 1, 3-thiazolidin-4-ones on Cancer Cell Proliferation in Vitro"**

Alaa Alkurdi, Taylor Houston

Advisor: Eric Ingersoll, Kevin Cannon

SE 014 **"Potential Impacts of Unconventional Hydraulic Fracturing on Southwestern Pennsylvania Communities"**

Brandon Bravo, Amina Jaleel

Advisor: Shelly Grinar-Boyd

SE 15 **"Inflammation in the aged kidney: potential effects of Iron chelation"**

Sonni Bocchinfuso

Advisor: Steven A. Bloomer

SE 16 **"Ascorbate Decreases Proliferation of Gastrointestinal Stromal Tumor"**

Sean Sandgren, William Romano, Adam Wasserman

Advisor: Thomas McGuire

SE17 **"Investigation of a Reported Synthesis of White Lead Pigment"**

Alejandra Barmash, Harika Karyampudi

Advisor: Kevin Cannon

SE 18 **"Bio-inspired Engineering: Spatial Representation of Objects through Sound"**

Viet Hung Tran, Dmytro Suprun, John Matysik, Dhruvilkumar Joshi

Advisor: Yi Yang

SE 19 **"Influencing Factors in Today's Economic Growth"**

Sol Mendoza

Advisor: Amreeta Choudbury

SE 20 **"An Intramolecular Zincke Reaction"**

Dieynaba Dia, Emily Lanzetta

Advisor: Ola El-Rashiedy and John Scovill