

SWARTHMORE COLLEGE ENGINEERING CLASS OF 2017 E90 PRESENTATIONS

Monday, May 1

Time	Presenter	Title	Advisor
9:00 am	Kathryn Longley	Structure from Motion	Matthew Zucker
9:20 am	Helen Hawver	Design of Sharples Dining Hall Expansion	Faruq Siddiqui
9:40 am	Jacklyn Pezzato	Design of an Aperture Array	Lynne Molter
10:00 am	Amy Han Dan Rovner	Motion Planning on Fetch and Freight Research Edition Robot	Matthew Zucker
<i>10:30 am</i>	<i>Break</i>		
11:00 am	Terry Yu	Developing an Interceptor for Flying Objects	Carr Everbach
11:20 am	David Ranshous	Outdoor Scale Automated Vehicle	Matthew Zucker
11:40 am	Rachel Sassella	Genetic Algorithms for Analog Circuit Design	Erik Cheever
12:00 pm	Michael Chen Christopher Grasberger	Autonomous Vehicle	Carr Everbach
<i>12:30 pm</i>	<i>Lunch</i>		
1:30 pm	Joshuah Wolper	Designing a Real-Time Interactive Elasto-Plastic Sandbox	Matthew Zucker
1:50 pm	Julie Harris	Designing a Robotics Course for Fifth Grade Students	Matthew Zucker
2:10 pm	Evan Greene Mollie Wild	Project Schlepbot: Autonomous Load Transportation	Matthew Zucker
<i>2:40 pm</i>	<i>Break</i>		
3:10 pm	Samuel Evans	Turtlebot Single-Board Computer	Matthew Zucker
3:30 pm	Atousa Nourmahnad	Investigating Cavitation of Genetically-Encoded Hollow Nanoproteins	Carr Everbach
3:50 pm	Henry Chen	Acoustic Levitation and Manipulation of Small Objects	Carr Everbach
<i>4:10 pm</i>	<i>Session Ends</i>		

SC 199 - Monday-Tuesday, May 1-2

SWARTHMORE COLLEGE ENGINEERING CLASS OF 2017 E90 PRESENTATIONS

Tuesday, May 2

Time	Presenter	Title	Advisor
9:30 am	Christian Morrow	Development of a Tremor Cancelling Controller	Michael Piovoso
9:50 am	Matthew Chen	Experimental Treatment of Non-Point Pollution in a Constructed Wetland	Arthur McGarity
10:10 am	Anthony Sigman-Lowery	Watershed Modeling and Water Quality: Developing and Applying Geoprocessing Models for Storm Water Management Practices at Swarthmore College	Arthur McGarity
10:30 am	Ursula Monaghan	Natural Systems for Storm Water Treatment: Swarthmore Borough Swim Club and Artificial Wetlands	Arthur McGarity
<i>10:50 am</i>	<i>Break</i>		
11:10 am	Alexandra Philyaw	Community Benefits of Green Storm Water Infrastructure in West Philadelphia	Arthur McGarity
11:30 am	Jonathan Cohen	Green Solutions for Combined Sewer Overflow Control in West Philadelphia	Arthur McGarity
11:50 am	William Li Steven Matos-Torres	Biodiesel Production, Evaluation, and Analysis	Nelson Macken
<i>12:20 pm</i>	<i>Lunch</i>		
1:30 pm	Darbus Oldham	Autonomous Object Location and Retrieval	Matthew Zucker
1:50 pm	George Abraham	Nonlinear Control of the Artificial Pancreas: A Sliding Mode Approach	Michael Piovoso
2:10 pm	John Larkin Tom Wilmots	Application of Neural Networks with Handwriting Samples	Matthew Zucker
<i>2:40 pm</i>	<i>Break</i>		
3:10 pm	Andrew Oye	Ground-Coupled Heat Pump Design	Nelson Macken
3:30 pm	Isaac Little	Numerical Weather Prediction for Solar Energy Applications	Arthur McGarity
3:50 pm	Michael Fox Gregory Lesko Cooper Woolston	Oxbow Sustainable Facility	Faruq Siddiqui
<i>4:30 pm</i>	<i>Session Ends</i>		

SC 199 - Monday-Tuesday, May 1-2