



BENG 492 / ECE 492 / ME 443
Fall 2018
Final Presentations

Date: Friday, December 7th, 2018

Time: 10:00am to 2:00pm

Location: Krasnow 229

Lunch Provided

10:00am-10:20am (including Q&A) – Team 7

Team members: Elizabeth Ankrah, Minh Quan Do, Victor Huynh, Bassam Mutawak

Title: Interface for Autonomous Robotic Surgery using Magnetically Stimulated Particles

Advisor(s): Drs. Weinberg and Peixoto

10:20am-10:40am (including Q&A) – Team 6 (MD)

Team members: A. Aguilar, S. Babcock, H. Carter, M. Garcia, S. Upshaw

Title: Novel Biomaterial-Based Gel for Efficient Serum Separation

Advisor(s): Drs. Hoemann and Veneziano

10:40am-11:00am (including Q&A) – Team 5

Team members: Marwa Bahr, Jill Chaniyara, Emily Littel, Veda Prasad

Title: Hepatic Steatosis Measurements

Advisor(s): Drs. Lynn Gerber and Amir Khan

11:00am-11:20am (including Q&A) – Team 9 (MD)

Team members: E. Cadima, M. Forbes, J. Hawkey, S. Mathes, F. Moghaddam, J. Scherer

Title: The Corrosion Detection Robot

Advisor(s): Dr. Beheshti

11:20am-11:40am (including Q&A) – Team 1 (MD)

Team members: Tyra Bookhart, Laura Carter, Paige Epler, Andrew Ryan

Title: An Automated Tubular Dilator for Minimally Invasive Brain and Spine Surgery

Advisor(s): Drs. Shenai, Wei and Zhang

BREAK (20 minutes)

12:00pm-12:20pm (including Q&A) – Team 4

Team members: Azaria Admassu, Gery Fabrega, Shashvat Jhaveri, Nathaniel Woycke

Title: Modeling of the Brain using Simulated Neural Networks

Advisor(s): Dr. Ascoli

12:20pm-12:40pm (including Q&A) – Team 2

Team members: Zara Asif, Jie Gao, Michael Kilroy, Umber Sheikh

Title: Physiological Detection of Mental Fatigue

Advisor(s): Dr. Ikonomidou

12:40pm-1:00pm (including Q&A) – Team 3

Team members: Norah Alotaibi, Dane Anderson, Zain Haq, Lana Hogan

Title: A Wearable Device for Gait Analysis & Fall Detection

Advisor(s): Dr. Ikonomidou

1:00pm-1:20pm (including Q&A) – Team 8 (MD)

Team members: Greg Anderson, Raman Marwah, Stefan Schweers, Tony Wang

Title: Wobble Chair for Veterans

Advisor(s): Dr. Cebal

1:20pm-1:40pm (including Q&A) – Team 10 (BENG 493 final presentation)

Team members: Sarai Alvarez, Abdulaziz Albahkali, Lauren Buchanan, Airmin Dhisha, Clint Johnson, Brian Schnoor

Title: Cerebral Aneurysm Risk Assessment

Advisor(s): Dr. Cebal

NEXT WEEK: Friday, December 14th from 1 to 3pm in the Great Room

LIVE DEMONSTRATION OF EVERY TEAMS PROTOTYPE